

<110> Ruben et al.

<120> 26 Human secreted proteins

<130> PZ040P1

<140> Unassigned

<141> 2000-12-01

<150> PCT/US00/15187

<151> 2000-06-02

<150> 60/137,725

<151> 1999-06-07

<160> 190

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Primer\_Bind  
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3  
 gcgcctcgag atttccccga aatctagatt tcccccggaaat gattttcccg aatgatttc 60  
 cccgaaatat ctgccatctc aattag 86

<210> 4  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Primer\_Bind  
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4  
 gcggcaagct ttttgcaaag ccttaggc 27

<210> 5  
 <211> 271  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

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 gcccctaact ccggcccgattt ccggcccatc tccgccccat ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtatg gaggaggctt 240  
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<210> 6  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
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 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6  
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<210> 7  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

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<210> 8  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggggactttc cc 12

<210> 9  
 <211> 73  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Primer\_Bind  
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

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<210> 10  
 <211> 256  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10  
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 cagttccgccc cattctccgc cccatggctg actaattttt tttatattatg cagaggccga 180  
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 ctttgcaaa aagctt 256

<210> 11  
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 <212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 1307

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (696)

&lt;223&gt; n equals a,t,g, or c

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&lt;210&gt; 21

&lt;211&gt; 1052

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

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<212> DNA
<213> Homo sapiens
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<211> 1770
<212> DNA
<213> Homo sapiens
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<212> DNA
<213> Homo sapiens
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 <211> 1257  
 <212> DNA  
 <213> Homo sapiens

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<210> 28  
 <211> 1181  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (903)  
 <223> n equals a,t,g, or c

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<212> DNA  
<213> Homo sapiens

<400> 29						
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gac	cc	cc	cc	cc	cc	1200
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cagt	gg	gg	gg	gg	gg	1440
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<210> 30  
<211> 1597  
<212> DNA  
<213> Homo sapiens

<400> 30						
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<210> 31
<211> 1759
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (618)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (1095)
<223> n equals a,t,g, or c
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<211> 2100
<212> DNA
<213> Homo sapiens
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<210> 33  
<211> 2333  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (430)  
<223> n equals a,t,g, or c

<400> 33						
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&lt;400&gt; 36

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<212> DNA  
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<400> 38

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<213> Homo sapiens

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ctcggccttc ttgcgtca ctgttccaaaga tcctccctgtg cacaatgttgg acccccggaga	1320
acatgtgttc gtgcatgcca taacttccga gtgtgtcatg ctggctgtg agtggaccg	1380
agaggacgccc cctgtgcgtt ggtacaagga cgggcaggag gtggaggaga gtgacttgc	1440
ggtgctggag aatgaggggc cccatcgccg cctgggtgtg cccgcccacc accgttcaga	1500
cggggggcggag tttcaagtgcg tcgctggaga tgatgtgtcc tacttcaatgc caccatcac	1560
agacgtctcc tcgtggatcg tgtatcccg cggcaagggt tatgtggcag ccgtgcgcct	1620
ggagcgtgtg gtgtgtaccc ttccatccatg ccggccctgg gcagagggtgc gctggacc	1680
ggatggagag gaggtgggtgg agaccccgcg ctgttccatgc agaaggaaga cactgtccgc	1740
cgcctgggtc tgcccgctgt ccagctcgag gactccggcg agtactgttgc tggaaatttgc	1800
gatgagtccgg cctccttac tgcaccctc acagagtctt accaaagtca ggacagtta	1860
aataacaatc cggagttatg cgttcccttg aaaaagccga agacccggcg gcttggtcc	1920
cgttcccccc catggccacg aacagctggc actgagtagc agtgcctttt atagttggg	1980
gcccacattc ctctgtccca cttccctgtt attgtttttt gcttctccca agaccgttcc	2040
acttccacc cgggtgtgtt accaggttaag tgcaccctt tgacggccctt gtgttaaacc	2100
aataaaatcg caaaataatg tacaacgtcg tgactggaa aaccctggcg ttacccaact	2160
aatcgcccttgc cagcacatcc cccttcgccc agtggcgta atagcgaaga gcccggaccga	2220
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<210> 45  
<211> 1707  
<212> DNA  
<213> Homo sapiens

<400> 45	
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tcctgggcct	ggctcctccc	ccttctcccc	atttggctg	ctgtgccagg	gcttgctcca	180
gccacctggg	tgtgagctat	gccctctgcc	agaaatgctc	tttcctctat	tggcctggcc	240
acacctactc	agtctttggg	tctgttaac	tgccacttcc	cccagtaaac	cttctgctcc	300
ccattcacat	cagatggact	tgtgtcttt	gcactagtct	atgagattt	gatgtctgt	360
tccttagggc	ccaagctggc	cactctggcc	cagaagcagc	ctcgggccc	gtcttgtcta	420
cagggtgtgg	ggggacagta	tgtgcacccc	cttgcttct	caggtggact	ttgaacagct	480
gactgagaac	ctggggcagc	tggagcgcgg	gagccggca	gccgaggaga	gcctgcccac	540
ttggccaagc	atgagctggc	cccagccctg	cgtgcccggc	tcacccactt	cctggaccag	600
tgtgcccgcg	cgtgttgcca	tgctaaggat	agtgcaccgc	cgtgtctgca	ataggttcca	660
tgccttcctg	ctctacctgg	gctacacccc	gcaggccggc	cgtgaagtgc	gcatcatgca	720
gttctgccac	acgctgcggg	aatttgcgct	tgagtatcgg	acttgcgggg	aacgagtgc	780
acagcagcag	cagaagcagg	ccacataccg	tgagcgcaac	aagacccggg	gacgcatgat	840
caccgagggt	ggtgccttc	caggtcttag	tcttgactgc	caccccttg	gtttccttcg	900
ctcctccctg	ctcaccccttc	tttttctcc	agacagagaa	gttctcagg	gtggctgggg	960
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ctgacagtca	tgctagtatg	aagagtctgc	tgaccagcag	gcctgaggac	accacacaca	1080
atcgccgcag	cagggcatg	gtccagagca	gctcccaat	catgcccaca	gtggggccct	1140
ccactgcatc	cccagaagaa	ccccccaggt	ccagttacc	cagtgatata	tcaaatgaga	1200
tcatggact	tctggcag	tcagtggacca	agagcagtcc	tcgtgcctt	gctgcttaggg	1260
aacgcgaagcg	ttcccgccgc	aaccgcgaat	cttggtaatg	accccccaca	atcccactgc	1320
ccacccctgaac	cccatcaacc	ccctccaaacc	ctgctctgtc	cctgcagtg	gaaggacgtt	1380
gaagaggtgg	ctcgagatg	acctggtgc	ggcactggg	ctaagcaagg	gtctggcct	1440
ggaggtgtga	agggtgtgt	tcccgaaat	ctatctggac	cctggactgc	agtgcaggag	1500
atgacagagt	gaggaggggcc	cagagcagaa	ttctggcccc	agaactctgt	gcccaggagc	1560
catgccttga	gcagtattag	ccgtgtgtgt	atgcatgtga	gtgtgtgtgt	atgtgtgtgt	1620
gtgcatgtat	atgcatgtgc	atgtgtgtga	gctccctgaa	cgcacggagc	aaaataaaaat	1680
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&lt;210&gt; 46

&lt;211&gt; 453

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

Met	Arg	Lys	Lys	Trp	Lys	Met	Gly	Gly	Met	Lys	Tyr	Ile	Phe	Ser	Leu
1					5				10					15	

Leu	Phe	Phe	Leu	Leu	Glu	Gly	Gly	Lys	Thr	Glu	Gln	Val	Lys	His	
								20					30		

Ser	Glu	Thr	Tyr	Cys	Met	Phe	Gln	Asp	Lys	Lys	Tyr	Arg	Val	Gly	Glu
					35			40			45				

Arg	Trp	His	Pro	Tyr	Leu	Glu	Pro	Tyr	Gly	Leu	Val	Tyr	Cys	Val	Asn
					50			55			60				

Cys	Ile	Cys	Ser	Glu	Asn	Gly	Asn	Val	Leu	Cys	Ser	Arg	Val	Arg	Cys
					65			70		75			80		

Pro	Asn	Val	His	Cys	Leu	Ser	Pro	Val	His	Ile	Pro	His	Leu	Cys	Cys
					85			90			95				

Pro	Arg	Cys	Pro	Glu	Asp	Ser	Leu	Pro	Pro	Val	Asn	Asn	Lys	Val	Thr
					100			105			110				

Ser	Lys	Ser	Cys	Glu	Tyr	Asn	Gly	Thr	Thr	Tyr	Gln	His	Gly	Glu	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115	120	125
Phe Val Ala Glu Gly Leu Phe Gln Asn Arg Gln Pro Asn Gln Cys Thr		
130	135	140
Gln Cys Ser Cys Ser Glu Gly Asn Val Tyr Cys Gly Leu Lys Thr Cys		
145	150	155
160		
Pro Lys Leu Thr Cys Ala Phe Pro Val Ser Val Pro Asp Ser Cys Cys		
165	170	175
Arg Val Cys Arg Gly Asp Gly Glu Leu Ser Trp Glu His Ser Asp Gly		
180	185	190
Asp Ile Phe Arg Gln Pro Ala Asn Arg Glu Ala Arg His Ser Tyr His		
195	200	205
Arg Ser His Tyr Asp Pro Pro Ser Arg Gln Ala Gly Gly Leu Ser		
210	215	220
Arg Phe Pro Gly Ala Arg Ser His Arg Gly Ala Leu Met Asp Ser Gln		
225	230	235
240		
Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn Asn Lys His Lys		
245	250	255
His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr Ser His Gly Glu		
260	265	270
Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val Glu Cys Val Leu		
275	280	285
Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys Ile His Cys Pro		
290	295	300
Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp Gly Lys Cys Cys		
305	310	315
320		
Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe Asp Asn Lys Gly		
325	330	335
Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu Ser Val Phe Met		
340	345	350
Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu Thr Glu Arg Pro		
355	360	365
Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys Gly Ile Leu Gln		
370	375	380
His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe Glu Glu Leu Pro		
385	390	395
400		
His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln Trp Lys Ile Phe		
405	410	415
Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser Ser Arg Val Cys		
420	425	430

09/26/94  
ME0100

Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr Leu Glu Arg Ser  
 435 440 445

Glu Lys Gly His Cys  
 450

<210> 47  
 <211> 446  
 <212> PRT  
 <213> Homo sapiens

<400> 47  
 Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val  
 1 5 10 15

Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln  
 20 25 30

Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser  
 35 40 45

Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro  
 50 55 60

Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln  
 65 70 75 80

Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu  
 85 90 95

Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu  
 100 105 110

Leu Pro Ala Gly Leu Ala Ser Phe Val Glu Val Val Ser Leu Trp Phe  
 115 120 125

Ala Glu Gly Gln Arg Tyr Ser His Ala Ala Gly Glu Cys Ala Arg Asn  
 130 135 140

Ala Thr Cys Thr His Tyr Thr Gln Leu Val Trp Ala Thr Ser Ser Gln  
 145 150 155 160

Leu Gly Cys Gly Arg His Leu Cys Ser Ala Gly Gln Ala Ala Ile Glu  
 165 170 175

Ala Phe Val Cys Ala Tyr Ser Pro Gly Gly Asn Trp Glu Val Asn Gly  
 180 185 190

Lys Thr Ile Ile Pro Tyr Lys Lys Gly Ala Trp Cys Ser Leu Cys Thr  
 195 200 205

Ala Ser Val Ser Gly Cys Phe Lys Ala Trp Asp His Ala Gly Gly Leu  
 210 215 220

Cys Glu Val Pro Arg Asn Pro Cys Arg Met Ser Cys Gln Asn His Gly  
 225 230 235 240

09/2004

Arg Leu Asn Ile Ser Thr Cys His Cys His Cys Pro Pro Gly Tyr Thr  
 245 250 255  
 Gly Arg Tyr Cys Gln Val Arg Cys Ser Leu Gln Cys Val His Gly Arg  
 260 265 270  
 Phe Arg Glu Glu Glu Cys Ser Cys Val Cys Asp Ile Gly Tyr Gly Gly  
 275 280 285  
 Ala Gln Cys Ala Thr Lys Val His Phe Pro Phe His Thr Cys Asp Leu  
 290 295 300  
 Arg Ile Asp Gly Asp Cys Phe Met Val Ser Ser Glu Ala Asp Thr Tyr  
 305 310 315 320  
 Tyr Arg Ala Arg Met Lys Cys Gln Arg Lys Gly Gly Val Leu Ala Gln  
 325 330 335  
 Ile Lys Ser Gln Lys Val Gln Asp Ile Leu Ala Phe Tyr Leu Gly Arg  
 340 345 350  
 Leu Glu Thr Thr Asn Glu Val Ile Asp Ser Asp Phe Glu Thr Arg Asn  
 355 360 365  
 Phe Trp Ile Gly Leu Thr Tyr Lys Thr Ala Lys Asp Ser Phe Arg Trp  
 370 375 380  
 Ala Thr Gly Glu His Gln Ala Phe Thr Ser Phe Ala Phe Gly Gln Pro  
 385 390 395 400  
 Asp Asn His Gly Phe Gly Asn Cys Val Glu Leu Gln Ala Ser Ala Ala  
 405 410 415  
 Phe Asn Trp Asn Asn Gln Arg Cys Lys Thr Arg Asn Arg Tyr Ile Cys  
 420 425 430  
 Gln Phe Ala Gln Glu His Ile Ser Arg Trp Gly Pro Gly Ser  
 435 440 445

<210> 48  
 <211> 834  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Met Lys His Thr Leu Ala Leu Ala Pro Leu Leu Gly Leu Gly Leu  
 1 5 10 15  
 Gly Leu Ala Leu Ser Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe  
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 Leu Gly Pro Ala Glu His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg  
 35 40 45  
 Trp Leu Ala Pro Arg Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr  
 50 55 60

Gly Thr Val Arg Arg Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro  
 65 70 75 80  
 Ser Glu Leu Val Lys Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val  
 85 90 95  
 Asn Glu Val Val Arg Tyr Glu Ala Gly Tyr Val Val Cys Ala Val Ile  
 100 105 110  
 Ala Gly Leu Tyr Leu Leu Val Pro Thr Ala Gly Leu Cys Phe Cys  
 115 120 125  
 Cys Cys Arg Cys His Arg Arg Cys Gly Gly Arg Val Lys Thr Glu His  
 130 135 140  
 Lys Ala Leu Ala Cys Glu Arg Ala Ala Leu Met Val Phe Leu Leu Leu  
 145 150 155 160  
 Thr Thr Leu Leu Leu Ile Gly Val Val Cys Ala Phe Val Thr Asn  
 165 170 175  
 Gln Arg Thr His Glu Gln Met Gly Pro Ser Ile Glu Ala Met Pro Glu  
 180 185 190  
 Thr Leu Leu Ser Leu Trp Gly Leu Val Ser Asp Val Pro Gln Glu Leu  
 195 200 205  
 Gln Ala Val Ala Gln Gln Phe Ser Leu Pro Gln Glu Gln Val Ser Glu  
 210 215 220  
 Glu Leu Asp Gly Val Gly Val Ser Ile Gly Ser Ala Ile His Thr Gln  
 225 230 235 240  
 Leu Arg Ser Ser Val Tyr Pro Leu Leu Ala Ala Val Gly Ser Leu Gly  
 245 250 255  
 Gln Val Leu Gln Val Ser Val His His Leu Gln Thr Leu Asn Ala Thr  
 260 265 270  
 Val Val Glu Leu Gln Ala Gly Gln Gln Asp Leu Glu Pro Ala Ile Arg  
 275 280 285  
 Glu His Arg Asp Arg Leu Leu Glu Leu Gln Glu Ala Arg Cys Gln  
 290 295 300  
 Gly Asp Cys Ala Gly Ala Leu Ser Trp Ala Arg Thr Leu Glu Leu Gly  
 305 310 315 320  
 Ala Asp Phe Ser Gln Val Pro Ser Val Asp His Val Leu His Gln Leu  
 325 330 335  
 Lys Gly Val Pro Glu Ala Asn Phe Ser Ser Met Val Gln Glu Glu Asn  
 340 345 350  
 Ser Thr Phe Asn Ala Leu Pro Ala Leu Ala Ala Met Gln Thr Ser Ser  
 355 360 365

05/23/2013  
 10:45 AM

Val Val Gln Glu Leu Lys Lys Ala Val Ala Gln Gln Pro Glu Gly Val  
 370 375 380  
 Arg Thr Leu Ala Glu Gly Phe Pro Gly Leu Glu Ala Ala Ser Arg Trp  
 385 390 395 400  
 Ala Gln Ala Leu Gln Glu Val Glu Glu Ser Ser Arg Pro Tyr Leu Gln  
 405 410 415  
 Glu Val Gln Arg Tyr Glu Thr Tyr Arg Trp Ile Val Gly Cys Val Leu  
 420 425 430  
 Cys Ser Val Val Leu Phe Val Val Leu Cys Asn Leu Leu Gly Leu Asn  
 435 440 445  
 Leu Gly Ile Trp Gly Leu Ser Ala Arg Asp Asp Pro Ser His Pro Glu  
 450 455 460  
 Ala Lys Gly Glu Ala Gly Ala Arg Phe Leu Met Ala Gly Val Gly Leu  
 465 470 475 480  
 Ser Phe Leu Phe Ala Ala Pro Leu Ile Leu Leu Val Phe Ala Thr Phe  
 485 490 495  
 Leu Val Gly Gly Asn Val Gln Thr Leu Val Cys Arg Ser Trp Glu Asn  
 500 505 510  
 Gly Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser  
 515 520 525  
 Met Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His  
 530 535 540  
 Gln Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu  
 545 550 555 560  
 Gln Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln  
 565 570 575  
 Tyr Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr  
 580 585 590  
 Gln Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala  
 595 600 605  
 Leu Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val  
 610 615 620  
 Gln Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln  
 625 630 635 640  
 Glu Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln  
 645 650 655  
 Arg Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys  
 660 665 670  
 Val Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg

675	680	685
Ala Leu Glu Ser Ser Ala Pro Asn Leu Gln Leu Glu Thr Ser Asp Val		
690	695	700
Leu Ala Asn Val Thr Tyr Leu Lys Gly Glu Leu Pro Ala Trp Ala Ala		
705	710	715
Arg Ile Leu Arg Asn Val Ser Glu Cys Phe Leu Ala Arg Glu Met Gly		
725	730	735
Tyr Phe Ser Gln Tyr Val Ala Trp Val Arg Glu Glu Val Thr Gln Arg		
740	745	750
Ile Ala Thr Cys Gln Pro Leu Ser Gly Ala Leu Asp Asn Ser Arg Val		
755	760	765
Ile Leu Cys Asp Met Met Ala Asp Pro Trp Asn Ala Phe Trp Phe Cys		
770	775	780
Leu Ala Trp Cys Thr Phe Phe Leu Ile Pro Ser Ile Ile Phe Ala Val		
785	790	795
Lys Thr Ser Lys Tyr Phe Arg Pro Ile Arg Lys Arg Leu Ser Ser Thr		
805	810	815
Ser Ser Glu Glu Thr Gln Leu Phe His Ile Pro Arg Val Thr Ser Leu		
820	825	830
Lys Leu		
<210> 49		
<211> 103		
<212> PRT		
<213> Homo sapiens		
<220>		
<221> SITE		
<222> (60)		
<223> Xaa equals any of the naturally occurring L-amino acids		
<400> 49		
Met Glu Phe Cys Leu Ile Phe Leu Leu Ile Leu Glu Phe Cys Gln		
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15		
Ile Phe Asp Cys Leu Arg Lys Cys Tyr Tyr Arg Leu Thr Cys Leu Ser		
20	25	30
Cys Leu Leu Leu Asn Leu Ile Phe Phe Ser Glu Lys Val Val Ser		
35	40	45
Glu Asn Pro Asn Ile Val Val Ile Gly Leu Ala Xaa Val Ile Met Leu		
50	55	60
Ser Ile Met Phe Ile Lys Trp Leu Leu Ile Leu Ile Phe Leu Leu		
65	70	75
80		

Ser Phe Lys Asn Leu Gly Lys Glu Gln Glu Glu Arg Glu Asp Leu Leu  
 85 90 95

Asn Ser Leu Leu Thr Thr Ser  
 100

<210> 50  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

<400> 50  
 Met Lys Ala Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn  
 1 5 10 15

Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys  
 20 25 30

Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser  
 35 40 45

Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro  
 50 55 60

Ser Pro Glu Val Ser Ala Ala Thr Ile Ser Leu Met Thr Asp Glu  
 65 70 75 80

Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln  
 85 90 95

Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala  
 100 105 110

Arg Pro Phe Glu Arg Ser Thr Ile Arg Ser Arg Ser Phe Lys Lys Ile  
 115 120 125

Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val  
 130 135 140

Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr Thr Ala  
 145 150 155 160

Pro Glu Val Phe Pro Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile  
 165 170 175

Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile  
 180 185 190

Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln  
 195 200 205

His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro  
 210 215 220

Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro  
 225 230 235 240

His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu Trp  
 245 250 255  
 Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn Gly Gln  
 260 265 270  
 Ala Pro Asp Ala Tyr Arg Pro Arg Asp Ser Phe His Val Ile Leu  
 275 280 285  
 Asn Lys Ser Ser Pro Glu Glu Gln Leu Gly Ile Lys Leu Val Arg Lys  
 290 295 300  
 Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly Gly Val  
 305 310 315 320  
 Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu Ala Ile  
 325 330 335  
 Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala His Leu  
 340 345 350  
 Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg Gln Val  
 355 360 365  
 Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Gly Trp Asn Ser Asn  
 370 375 380  
 Gly Ser Trp Ser Pro Gly Pro Gly Glu Arg Ser Asn Thr Pro Lys Pro  
 385 390 395 400  
 Leu His Pro Thr Ile Thr Cys His Glu Lys Val Val Asn Ile Gln Lys  
 405 410 415  
 Arg Pro Arg

<210> 51  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

<400> 51  
 Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp  
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 Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala  
 20 25 30  
 Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys  
 35 40 45  
 Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg  
 50 55 60  
 Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn  
 65 70 75 80

Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg  
 85 90 95

Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly  
 100 105 110

Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile  
 115 120 125

Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu  
 130 135 140

Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp  
 145 150 155 160

Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala  
 165 170 175

Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys  
 180 185 190

Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys  
 195 200 205

Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly  
 210 215 220

Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu  
 225 230 235 240

Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala  
 245 250 255

Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp  
 260 265 270

Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe  
 275 280 285

Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu  
 290 295 300

Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro  
 305 310 315 320

Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln  
 325 330 335

Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu His Glu Ile Lys  
 340 345 350

Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys  
 355 360 365

Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn  
 370 375 380

Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp  
 385 390 395 400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe  
 405 410 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu  
 420 425 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly  
 435 440 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu  
 450 455 460

Gln Asn Ile His  
 465

<210> 52  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<400> 52  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
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Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala Ile Ser Ala  
 85 90 95

Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala  
 100 105 110

Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val  
 115 120 125

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg  
 130 135 140

Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu  
 145 150 155 160

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile  
 165 170 175

Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro  
 180 185 190  
 Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val  
 195 200 205  
 Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser  
 210 215 220  
 Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala Leu Gly Asn  
 225 230 235 240  
 Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser Asn Gly Gln  
 245 250 255  
 Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg Cys Gly Gly  
 260 265 270  
 Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val His Trp Ala  
 275 280 285  
 Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro Leu Leu Val  
 290 295 300  
 Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn His Gln Ala  
 305 310 315 320  
 Phe Gln Lys His Gly Arg Ser Thr Thr Ser Asp Met Ile Ala Glu  
 325 330 335  
 Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr  
 340 345

<210> 53  
 <211> 523  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (248)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (249)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 53  
 Met Leu Arg Asn Gly Asn Lys Tyr Leu Leu Met Leu Val Ser Ile Ile  
 1 5 10 15

Met Leu Thr Ala Cys Ile Ser Gln Ser Arg Thr Ser Phe Ile Pro Pro  
 20 25 30

Gln Asp Arg Glu Ser Leu Leu Ala Glu Gln Pro Trp Pro His Asn Gly  
 35 40 45

Phe Val Ala Ile Ser Trp His Asn Val Glu Asp Glu Ala Ala Asp Gln  
 50 55 60

Arg Phe Met Ser Val Arg Thr Ser Ala Leu Arg Glu Gln Phe Ala Trp  
 65 70 75 80

Leu Arg Glu Asn Gly Tyr Gln Pro Val Ser Ile Ala Gln Ile Arg Glu  
 85 90 95

Ala His Arg Gly Gly Lys Pro Leu Pro Glu Lys Ala Val Val Leu Thr  
 100 105 110

Phe Asp Asp Gly Tyr Gln Ser Phe Tyr Thr Arg Val Phe Pro Ile Leu  
 115 120 125

Gln Ala Phe Gln Trp Pro Ala Val Trp Ala Pro Val Gly Ser Trp Val  
 130 135 140

Asp Thr Pro Ala Asp Lys Gln Val Lys Phe Gly Asp Glu Leu Val Asp  
 145 150 155 160

Arg Glu Tyr Phe Ala Thr Trp Gln Gln Val Arg Glu Val Ala Arg Ser  
 165 170 175

Arg Leu Val Glu Leu Ala Ser His Thr Trp Asn Ser His Tyr Gly Ile  
 180 185 190

Gln Ala Asn Ala Thr Gly Ser Leu Leu Pro Val Tyr Val Asn Arg Ala  
 195 200 205

Tyr Phe Thr Asp His Ala Arg Tyr Glu Thr Ala Ala Glu Tyr Arg Glu  
 210 215 220

Arg Ile Arg Leu Asp Ala Val Lys Met Thr Glu Tyr Leu Arg Thr Lys  
 225 230 235 240

Val Glu Val Asn Pro His Val Xaa Xaa Trp Pro Tyr Gly Glu Ala Asn  
 245 250 255

Gly Ile Ala Ile Glu Glu Leu Lys Lys Leu Gly Tyr Asp Met Phe Phe  
 260 265 270

Thr Leu Glu Ser Gly Leu Ala Asn Ala Ser Gln Leu Asp Ser Ile Pro  
 275 280 285

Arg Val Leu Ile Ala Asn Asn Pro Ser Leu Lys Glu Phe Ala Gln Gln  
 290 295 300

Ile Ile Thr Val Gln Glu Lys Ser Pro Gln Arg Ile Met His Ile Asp  
 305 310 315 320

Leu Asp Tyr Val Tyr Asp Glu Asn Leu Gln Gln Met Asp Arg Asn Ile  
 325 330 335

Asp Val Leu Ile Gln Arg Val Lys Asp Met Gln Ile Ser Thr Val Tyr  
 340 345 350

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Leu Gln Ala Phe Ala Asp Pro Asp Gly Asp Gly Leu Val Lys Glu Val  
 355 360 365  
 Trp Phe Pro Asn Arg Leu Leu Pro Met Lys Ala Asp Ile Phe Ser Arg  
 370 375 380  
 Val Ala Trp Gln Leu Arg Thr Arg Ser Gly Val Asn Ile Tyr Ala Trp  
 385 390 395 400  
 Met Pro Val Leu Ser Trp Asp Leu Asp Pro Thr Leu Thr Arg Val Lys  
 405 410 415  
 Tyr Leu Pro Thr Gly Glu Lys Lys Ala Gln Ile His Pro Glu Gln Tyr  
 420 425 430  
 His Arg Leu Ser Pro Phe Asp Asp Arg Val Arg Ala Gln Val Gly Met  
 435 440 445  
 Leu Tyr Glu Asp Leu Ala Gly His Ala Ala Phe Asp Gly Ile Leu Phe  
 450 455 460  
 His Asp Asp Ala Leu Leu Ser Asp Tyr Glu Asp Ala Ser Ala Pro Ala  
 465 470 475 480  
 Ile Thr Ala Tyr Gln Gln Ala Gly Phe Ser Gly Ser Leu Ser Glu Ile  
 485 490 495  
 Arg Gln Asn Pro Glu Gln Phe Lys Gln Trp Ala Arg Phe Lys Ser Arg  
 500 505 510  
 Ala Leu Thr Asp Phe Thr Leu Glu Leu Ser Ala  
 515 520

<210> 54  
 <211> 220  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 54  
 Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu  
 1 5 10 15

Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser  
 20 25 30

Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg  
 35 40 45

Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys  
 50 55 60

His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu

65	70	75	80
Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser			
85	90	95	
Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu			
100	105	110	
Cys Arg Gln Ala Cys Lys Gln Ala Ser Ser Lys Asn Asp Ile Ser Lys			
115	120	125	
Val Cys Arg Lys Glu Tyr Glu Asn Ala Leu Phe Ser Cys Ile Ser Arg			
130	135	140	
Asn Glu Met Gly Ser Val Cys Cys Ser Tyr Ala Gly His His Thr Asn			
145	150	155	160
Cys Arg Glu Tyr Cys Gln Ala Ile Phe Xaa Thr Asp Ser Ser Pro Gly			
165	170	175	
Pro Ser Gln Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser Ile Ser Pro			
180	185	190	
Gln Leu Ile His Cys Val Asn Asn Tyr Thr Gln Ser Tyr Pro Met Arg			
195	200	205	
Asn Pro Thr Asp Ser Arg Ser Val Leu Ser Asp Ile			
210	215	220	
<210> 55			
<211> 93			
<212> PRT			
<213> Homo sapiens			
<400> 55			
Met Gly Ala Ala Leu Leu Trp Glu Val Leu Val Gly Gly Thr Arg Ala			
1	5	10	15
Leu Thr Asn Leu Leu Leu Gly Gly Thr Ser Pro Gly Arg Thr Ser			
20	25	30	
Gln Leu Gln Val Leu Arg Leu Pro Val Ala Ala Glu Pro Val Pro Leu			
35	40	45	
Ala Phe Ser Ser His Asn Gly Glu Gly Asp Phe Gly Ile Leu Thr Asn			
50	55	60	
Ser Ser Leu Gly Leu Ser Leu Leu Pro Ser Thr Ala Ser Arg Phe Ser			
65	70	75	80
Ser Ile Cys Ala Tyr Tyr Leu Arg Thr Val Ser Ala Pro			
85	90		
<210> 56			
<211> 79			
<212> PRT			

<213> Homo sapiens

<400> 56  
 Met Val Pro Trp Phe Leu Leu Trp Ser Ser Phe Phe Ile Gly Thr Ser  
 1 5 10 15

Ser Ala Tyr Ile Asp Lys Gln Val Lys Ile Val Arg Gln Lys Ser Thr  
 20 25 30

Tyr Trp Gly Glu Lys Phe Leu Lys Arg Cys Glu Arg Glu Arg Ile Lys  
 35 40 45

Glu Ser Glu Gln Ser Gly Lys Arg Gly Glu Leu Arg Glu Arg Gln Gln  
 50 55 60

Lys Ser Asn Glu Ala Gly Cys Ile Tyr Gln Ser Ile Ile Leu Ile  
 65 70 75

<210> 57  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 57  
 Met Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Leu Cys  
 1 5 10 15

Pro Gln Leu Ala Trp Trp Gln Val Trp Arg Met Cys Arg Tyr Thr Thr  
 20 25 30

Gly Lys Met Pro Ser Ser Pro Ser Ile Ser Pro Pro Ser Ser Arg Val  
 35 40 45

Pro Gly Ser Leu Met Gly Lys Ser Ser Arg Val Thr Ser Arg Arg Ala  
 50 55 60

Arg Trp Asn Leu Gly Pro Cys Gly Thr Val  
 65 70

<210> 58  
 <211> 446  
 <212> PRT  
 <213> Homo sapiens

<400> 58  
 Met Thr Ser Lys Glu Ile Ile Leu Gly Leu Cys Leu Leu Ser Leu Val  
 1 5 10 15

Leu Ser Met Ile Leu Met Val Ile Ile Arg Tyr Ile Ser Arg Val Leu  
 20 25 30

Val Trp Ile Leu Thr Ile Leu Val Ile Leu Gly Ser Leu Gly Gly Thr  
 35 40 45

Gly Val Leu Trp Trp Pro Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu  
 50 55 60

Thr Val Thr Pro Glu Gln Leu Gln Ile Ala Glu Asp Asn Leu Arg Ala  
 65 70 75 80  
 Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val Phe Thr Val Ile Leu Phe  
 85 90 95  
 Leu Ile Met Leu Val Met Arg Lys Arg Val Ala Leu Thr Ile Ala Leu  
 100 105 110  
 Phe His Val Ala Gly Lys Val Phe Ile His Leu Pro Leu Leu Val Phe  
 115 120 125  
 Gln Pro Phe Trp Thr Phe Phe Ala Leu Val Leu Phe Trp Val Tyr Trp  
 130 135 140  
 Ile Met Thr Leu Leu Phe Leu Gly Thr Thr Gly Ser Pro Val Gln Asn  
 145 150 155 160  
 Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met  
 165 170 175  
 Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu  
 180 185 190  
 Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe  
 195 200 205  
 Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val  
 210 215 220  
 Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe  
 225 230 235 240  
 Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His  
 245 250 255  
 Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys  
 260 265 270  
 Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu  
 275 280 285  
 Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys  
 290 295 300  
 Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg  
 305 310 315 320  
 Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys  
 325 330 335  
 Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asn  
 340 345 350  
 Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys  
 355 360 365

Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met  
 370 375 380

Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn  
 385 390 395 400

Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu  
 405 410 415

Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly  
 420 425 430

Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg  
 435 440 445

<210> 59

<211> 58

<212> PRT

<213> Homo sapiens

<400> 59

Met Leu Phe Phe Tyr Leu Asn Tyr Leu Met Ile Ala Leu Leu Leu  
 1 5 10 15

Phe Lys Lys Ile Gln Lys Ser Asn Lys Gly Lys Asp Gly Asn Leu Met  
 20 25 30

Ile Glu Gly Val Ala Cys Val Thr Val Gly Gly Lys Glu Tyr Ile Asp  
 35 40 45

Phe Ala Leu Val Asp Ile Phe Met Leu Val  
 50 55

<210> 60

<211> 941

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (807)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (809)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (815)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (819)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 60

Met	Val	Phe	Leu	Pro	Leu	Lys	Trp	Ser	Leu	Ala	Thr	Met	Ser	Phe	Leu
1				5					10				15		
Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys															
20 25 30															
Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro															
35 40 45															
Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp															
50 55 60															
Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr															
65 70 75 80															
Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His															
85 90 95															
Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly															
100 105 110															
Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln															
115 120 125															
Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro															
130 135 140															
Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His															
145 150 155 160															
Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile															
165 170 175															
Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro															
180 185 190															
Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg															
195 200 205															
Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser															
210 215 220															
Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val															
225 230 235 240															
Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser															
245 250 255															
Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val															
260 265 270															
Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr															
275 280 285															
Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro															

290	295	300
Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu		
305	310	315
Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala		
325	330	335
Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala		
340	345	350
His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp		
355	360	365
Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe		
370	375	380
Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe		
385	390	395
Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser		
405	410	415
His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met		
420	425	430
Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu		
435	440	445
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr		
450	455	460
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp		
465	470	475
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly		
485	490	495
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser His Trp His Gln		
500	505	510
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg		
515	520	525
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met		
530	535	540
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly		
545	550	555
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met		
565	570	575
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro		
580	585	590
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr		
595	600	605

Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu  
 610 615 620

Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile  
 625 630 635 640

Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys  
 645 650 655

Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro  
 660 665 670

Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu  
 675 680 685

Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile  
 690 695 700

Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly  
 705 710 715 720

Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Ala Cys  
 725 730 735

Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg  
 740 745 750

Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr  
 755 760 765

Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe  
 770 775 780

Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln  
 785 790 795 800

Ile Glu Phe Ala Leu Cys Xaa Pro Xaa Asn Lys Glu Lys Leu Xaa Trp  
 805 810 815

Leu Leu Xaa Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe  
 820 825 830

Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu  
 835 840 845

Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe  
 850 855 860

Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn  
 865 870 875 880

Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser  
 885 890 895

Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile  
 900 905 910

Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys  
 915 920 925

Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
 930 935 940

<210> 61  
 <211> 549  
 <212> PRT  
 <213> Homo sapiens

<400> 61  
 Met Trp Leu Pro Leu Val Leu Leu Ala Val Leu Leu Leu Ala Val  
 1 5 10 15

Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro  
 20 25 30

Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys  
 35 40 45

Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg  
 50 55 60

Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu  
 65 70 75 80

Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val  
 85 90 95

Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu  
 100 105 110

Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala  
 115 120 125

Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala  
 130 135 140

Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu  
 145 150 155 160

Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala  
 165 170 175

Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser  
 180 185 190

Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr  
 195 200 205

Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr  
 210 215 220

Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala Phe  
 225 230 235 240

His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys  
 245 250 255  
 Ala Thr Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly  
 260 265 270  
 Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile  
 275 280 285  
 Val Val Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro  
 290 295 300  
 Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val  
 305 310 315 320  
 Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr  
 325 330 335  
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp  
 340 345 350  
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu  
 355 360 365  
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala  
 370 375 380  
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile  
 385 390 395 400  
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu  
 405 410 415  
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe  
 420 425 430  
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu  
 435 440 445  
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe  
 450 455 460  
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu  
 465 470 475 480  
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro  
 485 490 495  
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu  
 500 505 510  
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys  
 515 520 525  
 Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala  
 530 535 540  
 Gln Lys Lys Lys Asn

545

<210> 62  
 <211> 326  
 <212> PRT  
 <213> Homo sapiens

<400> 62  
 Met Arg Thr Glu Ala Gln Val Pro Ala Leu Gln Pro Pro Glu Pro Gly  
 1 5 10 15

Leu Glu Gly Ala Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu  
 20 25 30

Leu Thr Leu Cys Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val  
 35 40 45

Arg Met Glu Ala Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe  
 50 55 60

Leu Gly Ser Gly Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro  
 65 70 75 80

Asp Gly Ala Gly Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly  
 85 90 95

Ile Arg Gln Trp Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser  
 100 105 110

Ser Ile Ser Leu Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala  
 115 120 125

Asn Thr Thr Phe Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp  
 130 135 140

Glu Ala Cys Gly Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala  
 145 150 155 160

Pro Pro Thr Pro Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu  
 165 170 175

Gly Val Ser Gly Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu  
 180 185 190

Leu Arg Arg His Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg  
 195 200 205

Thr Ser Pro Gln Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala  
 210 215 220

Ser Gln Ala Ala Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys  
 225 230 235 240

Arg Pro Ala Thr Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp  
 245 250 255

Trp Ala Ser Leu Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala

260

265

270

Ala Trp Ala Ser Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val  
 275 280 285

Glu Asn Gly Leu Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly  
 290 295 300

Pro Gly Leu Thr Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu  
 305 310 315 320

Gly Pro Leu Gly Val Arg  
 325

<210> 63

<211> 267

<212> PRT

<213> Homo sapiens

<400> 63

Met Ala Pro Trp Ala Leu Leu Ser Pro Gly Val Leu Val Arg Thr Gly  
 1 5 10 15

His Thr Val Leu Thr Trp Gly Ile Thr Leu Val Leu Phe Leu His Asp  
 20 25 30

Thr Glu Leu Arg Gln Trp Glu Glu Gln Gly Glu Leu Leu Leu Pro Leu  
 35 40 45

Thr Phe Leu Leu Leu Val Leu Gly Ser Leu Leu Leu Tyr Leu Ala Val  
 50 55 60

Ser Leu Met Asp Pro Gly Tyr Val Asn Val Gln Pro Gln Pro Gln Glu  
 65 70 75 80

Glu Leu Lys Glu Glu Gln Thr Ala Met Val Pro Pro Ala Ile Pro Leu  
 85 90 95

Arg Arg Cys Arg Tyr Cys Leu Val Leu Gln Pro Leu Arg Ala Arg His  
 100 105 110

Cys Arg Glu Cys Arg Arg Cys Val Arg Arg Tyr Asp His His Cys Pro  
 115 120 125

Trp Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val  
 130 135 140

Tyr Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala  
 145 150 155 160

Trp Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser  
 165 170 175

Ser Gly Leu Leu Phe Ala Thr Phe Leu Leu Leu Ser Leu Phe Ser Leu  
 180 185 190

Val Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn

195	200	205
Thr Thr Thr Trp Glu Phe Ile Ser Ser His Arg Ile Ala Tyr Leu Arg		
210	215	220
Gln Arg Pro Ser Asn Pro Phe Asp Arg Gly Leu Thr Arg Asn Leu Ala		
225	230	240
His Phe Phe Cys Gly Trp Pro Ser Gly Ser Trp Glu Thr Leu Trp Ala		
245	250	255
Glu Glu Glu Glu Gly Ser Ser Pro Ala Val		
260	265	

<210> 64  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 64		
Met Lys Ser Gln Ser Pro Leu Arg Ser Met Leu Leu Val Gly Gly Leu		
1	5	10
Val Ser Val Leu Ala Glu His Leu Gln His Pro Gln Ser Arg Gln Pro		
20	25	30
Pro Leu Ser His Leu Ser Ser His Leu Thr Trp Asp Ala Gln Val Glu		
35	40	45
Leu Asp Arg Ile Phe Leu Ser Ile Arg Pro Pro Glu Val Pro		
50	55	60

<210> 65  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 65		
Met Asn Val Thr Val Thr Leu Pro Lys Tyr His Leu Ala Leu Ile Trp		
1	5	10
Leu Leu Phe His Phe Gly Trp Ala Leu Leu Ser Val Cys Ser Lys Thr		
20	25	30
Val Leu Met Asn Leu Ser Asn Val His Asn Ala Val Ile Gly		
35	40	45

<210> 66  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 66		
Met Tyr Leu Gly Arg Arg Trp Phe Phe Leu Tyr Leu Cys Pro Phe Pro		
1	5	10
		15

Ser Ser Ala Leu Pro Thr Phe Cys Ala Leu Leu His Ala His Thr Ser  
     20                         25                         30  
  
 Phe Cys Met Ile Asn Gly Leu Gly His Ala Ala His Ser Leu Ala Tyr  
     35                         40                         45  
  
 Glu Thr Phe Thr Leu Ser Ala Glu Gly Ala Arg Asp Pro Pro Lys Ala  
     50                         55                         60  
  
 Thr Glu Cys Ser Ile Cys Ser Leu Pro Ser Phe Cys Ile Pro Gly Phe  
     65                         70                         75                         80  
  
 Cys Ile Leu Phe

<210> 67  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 67  
 Met Gly Leu Phe Pro Lys Leu Leu Ser Leu Ile Phe Gln Ile Val Tyr  
     1                      5                         10                         15  
  
 Phe Leu Pro Ser Ala Leu Glu Met Thr Val Ala Ser Pro Ser Cys His  
     20                         25                         30  
  
 Phe Cys Asp Ala Leu Glu Ser Leu Phe Phe Ser Asn  
     35                         40

<210> 68  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Met Gln Thr Cys Gln Ala Ile Lys Gly Ser Cys Leu Ser Val Ser Leu  
     1                      5                         10                         15  
  
 Ile Leu Leu Cys Ala Ala Ser Thr Glu Gly Phe Arg Ala Pro Asp Leu  
     20                         25                         30

Phe Cys Val Leu Arg Lys Ser Lys Cys Leu Ala Arg Thr Gln Pro Phe  
     35                         40                         45  
  
 Phe Leu His Pro Glu Thr Ser  
     50                         55

<210> 69  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 69  
 Met Gly His Phe Ala Pro Gly Val Phe His Leu Gly Ile Met Phe Thr  
 1 5 10 15

Gly Leu Ile Pro Val Val Val Cys Ser Ser Pro Ala Phe Leu Pro Val  
 20 25 30

Ala Glu Tyr Leu Ile His Cys Val Gly Ile His His Xaa Leu Val Asp  
 35 40 45

Gly Thr Phe Gly Val Val Phe His Leu Leu Val Met Met Gly Xaa Xaa  
 50 55 60

Pro Gln Gln Thr Phe Val Leu Gln Ser Phe Ala Val Ala Xaa Gly Arg  
 65 70 75 80

Phe Phe Leu

<210> 70  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (381)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 70  
 Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp  
 1 5 10 15

Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala  
 20 25 30

Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys  
 35 40 45

Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu  
 50 55 60

Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Leu Asp Phe Ser Asp  
 65 70 75 80

Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu  
 85 90 95

Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser  
 100 105 110

Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Ile Lys Gly  
 115 120 125

Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Leu Pro His  
 130 135 140

Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys  
 145 150 155 160

Leu Phe Trp Arg Glu Leu Lys Leu Ala Gly Gly His Gly Val Ser Ala  
 165 170 175

Ser Arg Phe Gly Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val  
 180 185 190

Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys  
 195 200 205

Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr  
 210 215 220

Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr  
 225 230 235 240

Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp  
 245 250 255

Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met  
 260 265 270

Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn  
 275 280 285

Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala  
 290 295 300

Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu  
 305 310 315 320

Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu  
 325 330 335

Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile  
 340 345 350

Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser  
 355 360 365  
 Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp  
 370 375 380  
 Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu  
 385 390 395 400  
 Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu  
 405 410 415  
 Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp  
 420 425 430  
 Lys Ala

<210> 71  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 71  
 Met Gly Asn Gln Lys Leu Leu Leu Ser Leu Glu Val Leu Pro Gln Leu  
 1 5 10 15  
 Leu Leu Val Leu Ile Leu Met Pro Trp Phe Leu Leu Val Gly Lys Gly  
 20 25 30  
 His Ser Tyr His Ser Glu Glu Gln Glu Lys Ser  
 35 40

<210> 72  
 <211> 322  
 <212> PRT  
 <213> Homo sapiens

<400> 72  
 Met Lys Tyr Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly  
 1 5 10 15  
 Lys Thr Glu Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp  
 20 25 30  
 Lys Lys Tyr Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr  
 35 40 45  
 Gly Leu Val Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val  
 50 55 60  
 Leu Cys Ser Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val  
 65 70 75 80  
 His Ile Pro His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro  
 85 90 95

Pro Val Asn Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr  
 100 105 110  
 Thr Tyr Gln His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn  
 115 120 125  
 Arg Gln Pro Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val  
 130 135 140  
 Tyr Cys Gly Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val  
 145 150 155 160  
 Ser Val Pro Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu  
 165 170 175  
 Ser Trp Glu His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg  
 180 185 190  
 Glu Ala Arg His Ser Tyr His His Ser His Tyr Asp Pro Pro Pro Ser  
 195 200 205  
 Arg Gln Ala Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg  
 210 215 220  
 Gly Ala Leu Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile  
 225 230 235 240  
 Val Ile Asn Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly  
 245 250 255  
 Lys Thr Tyr Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe  
 260 265 270  
 Gly Ile Val Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu  
 275 280 285  
 Cys Lys Lys Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln  
 290 295 300  
 Lys Ile Asp Gly Lys Cys Cys Lys Val Cys Pro Gly Lys Lys Lys Lys  
 305 310 315 320  
 Lys Lys

<210> 73  
 <211> 306  
 <212> PRT  
 <213> Homo sapiens

<400> 73  
 Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn  
 1 5 10 15  
 Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys  
 20 25 30

Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser  
 35 40 45

Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro  
 50 55 60

Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu  
 65 70 75 80

Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln  
 85 90 95

Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala  
 100 105 110

Arg Pro Phe Glu Arg Ser Thr Ile Arg Ser Arg Ser Phe Lys Lys Ile  
 115 120 125

Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val  
 130 135 140

Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr Thr Ala  
 145 150 155 160

Pro Glu Val Phe Pro Arg Leu Tyr His Leu Ile Pro Asp Gly Glu Ile  
 165 170 175

Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser Glu Ser Leu Ser Ile  
 180 185 190

Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val His Ile Ile Ile Gln  
 195 200 205

His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp Gly Arg Leu Leu Pro  
 210 215 220

Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro  
 225 230 235 240

His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu Trp  
 245 250 255

Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn Gly Gln  
 260 265 270

Ala Pro Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu  
 275 280 285

Asn Lys Ser Arg Pro Arg Gly Ala Ala Trp Asn Lys Thr Gly Ala Gln  
 290 295 300

Gly Gly  
 305

<210> 74  
 <211> 114

<212> PRT  
 <213> Homo sapiens

<400> 74  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
 1 5 10 15  
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30  
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45  
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60  
 Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80  
 Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
 85 90 95  
 Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro  
 100 105 110  
 His Leu

<210> 75  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
 1 5 10 15  
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30  
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45  
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60  
 Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80  
 Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
 85 90 95  
 Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro  
 100 105 110  
 His Leu

<210> 76  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 76  
 Met Tyr Ala Cys Val Cys Arg Val Leu Gln Pro Gly Cys Gly Arg Val  
 1 5 10 15  
 Leu Val Cys Ala Arg Val Pro Ala Trp Leu Trp Val Cys Val Cys Val  
 20 25 30  
 Cys Val Cys Val Cys Val Cys Val Leu Ala Ser Gly Ala Val Arg Pro  
 35 40 45  
 Leu Arg Val Gly Ala Leu Phe Ser Ala His Trp Lys Pro Ser Pro Phe  
 50 55 60  
 Ser Gln Met Pro Gly Arg Gly Ala Ala Val Gly Thr His Leu Val  
 65 70 75 80  
 Leu Leu Ser Asp Leu  
 85

<210> 77  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<400> 77  
 Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu  
 1 5 10 15  
 Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser  
 20 25 30  
 Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg  
 35 40 45  
 Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys  
 50 55 60  
 His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu  
 65 70 75 80  
 Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser  
 85 90 95  
 Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu  
 100 105 110  
 Cys Arg Gln Ala Cys Lys Gln Ala Ser Ser Lys Asn Asp Ile Ser Lys  
 115 120 125  
 Val Cys Arg Lys Glu Tyr Glu Pro Val Leu Arg Tyr Phe Ser Val Leu

130

135

140

Pro Ser Leu Val Trp Ile Ser Ala Leu Pro  
 145 150

<210> 78  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 78  
 Met Ala Thr Val Arg Ala Ser Leu Arg Gly Ala Leu Leu Leu Leu Leu  
 1 5 10 15

Ala Val Ala Gly Val Ala Glu Val Ala Gly Gly Leu Ala Pro Gly Ser  
 20 25 30

Ala Gly Ala Leu Cys Cys Asn His Ser Lys Asp Asn Gln Met Cys Arg  
 35 40 45

Asp Val Cys Glu Gln Ile Phe Ser Ser Lys Ser Glu Ser Arg Leu Lys  
 50 55 60

His Leu Leu Gln Arg Ala Pro Asp Tyr Cys Pro Glu Thr Met Val Glu  
 65 70 75 80

Ile Trp Asn Cys Met Asn Ser Ser Leu Pro Gly Val Phe Lys Lys Ser  
 85 90 95

Asp Gly Trp Val Gly Leu Gly Cys Cys Glu Leu Ala Ile Ala Leu Glu  
 100 105 110

Cys Arg Gln Ala Cys Ser Arg His Leu Gln Arg Met Ile Phe Pro Lys  
 115 120 125

Phe Ala Glu Lys Asn Met Ser Leu Ser Ser Val Ile Leu Val Cys Phe  
 130 135 140

Leu Leu Leu Ser Gly Phe Leu His Cys Pro Arg Lys Ser Ala Ser Met  
 145 150 155 160

Cys

<210> 79  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
 Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Phe Val Pro  
 1 5 10 15

Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly  
 20 25 30

Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr  
 35 40 45

Trp Phe Pro  
 50

<210> 80  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val  
 1 5 10 15

Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His  
 20 25 30

Gln Met Asp Leu Cys Leu Leu His  
 35 40

<210> 81  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 81  
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg  
 1 5 10 15

Gly Xaa Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe  
 20 25 30

Ala Val Val Gln  
 35

<210> 82  
 <211> 489  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82  
 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg  
 1 5 10 15

Gly Xaa Arg Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe  
 20 25 30

Ala Val Val Gln Met Arg Lys Lys Trp Lys Met Gly Gly Met Lys Tyr  
 35 40 45

Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly Lys Thr Glu  
 50 55 60

Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp Lys Lys Tyr  
 65 70 75 80

Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr Gly Leu Val  
 85 90 95

Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser  
 100 105 110

Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro  
 115 120 125

His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro Pro Val Asn  
 130 135 140

Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln  
 145 150 155 160

His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn Arg Gln Pro  
 165 170 175

Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val Tyr Cys Gly  
 180 185 190

Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val Ser Val Pro  
 195 200 205

Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu Ser Trp Glu  
 210 215 220

His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg Glu Ala Arg  
 225 230 235 240

His Ser Tyr His Arg Ser His Tyr Asp Pro Pro Pro Ser Arg Gln Ala  
 245 250 255

Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg Gly Ala Leu  
 260 265 270

Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn  
 275 280 285

Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr  
 290 295 300

Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val  
 305 310 315 320

Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys

325

330

335

Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp  
 340 345 350

Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe  
 355 360 365

Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu  
 370 375 380

Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu  
 385 390 395 400

Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys  
 405 410 415

Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe  
 420 425 430

Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln  
 435 440 445

Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser  
 450 455 460

Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr  
 465 470 475 480

Leu Glu Arg Ser Glu Lys Gly His Cys  
 485

<210> 83

<211> 20

<212> PRT

<213> Homo sapiens

<400> 83

Glu Thr Ser Arg Val Ala Glu Pro Gly Cys Ala Arg Ser Pro Asp Gly  
 1 5 10 15

Pro Asn Arg Pro  
 20

<210> 84

<211> 83

<212> PRT

<213> Homo sapiens

<400> 84

Gln Leu Ala Ala Gly Ala Thr Asp Cys Lys Phe Leu Gly Pro Ala Glu  
 1 5 10 15

His Leu Thr Phe Thr Pro Ala Ala Arg Ala Arg Trp Leu Ala Pro Arg  
 20 25 30

Val Arg Ala Pro Gly Leu Leu Asp Ser Leu Tyr Gly Thr Val Arg Arg  
 35 40 45

Phe Leu Ser Val Val Gln Leu Asn Pro Phe Pro Ser Glu Leu Val Lys  
 50 55 60

Ala Leu Leu Asn Glu Leu Ala Ser Val Lys Val Asn Glu Val Val Arg  
 65 70 75 80

Tyr Glu Ala

<210> 85  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 85

Val Cys Ala Phe Val Thr Asn Gln Arg Thr His Glu Gln Met Gly Pro  
 1 5 10 15

Ser Ile Glu Ala Met Pro Glu Thr Leu Leu Ser Leu Trp Gly Leu Val  
 20 25 30

Ser Asp Val Pro Gln Glu Leu Gln Ala Val Ala Gln Gln Phe Ser Leu  
 35 40 45

Pro Gln Glu Gln Val Ser Glu Glu Leu Asp Gly Val Gly Val Ser Ile  
 50 55 60

Gly Ser Ala Ile His Thr Gln Leu Arg Ser Ser Val Tyr Pro Leu Leu  
 65 70 75 80

Ala Ala Val Gly Ser Leu Gly Gln Val Leu Gln Val Ser Val His His  
 85 90 95

Leu Gln Thr Leu Asn Ala Thr Val Val Glu Leu Gln Ala Gly Gln Gln  
 100 105 110

Asp Leu Glu Pro Ala Ile Arg Glu His Arg Asp Arg Leu Leu Glu Leu  
 115 120 125

Leu Gln Glu Ala Arg Cys Gln Gly Asp Cys Ala Gly Ala Leu Ser Trp  
 130 135 140

Ala Arg Thr Leu Glu Leu Gly Ala Asp Phe Ser Gln Val Pro Ser Val  
 145 150 155 160

Asp His Val Leu His Gln Leu Lys Gly Val Pro Glu Ala Asn Phe Ser  
 165 170 175

Ser Met Val Gln Glu Glu Asn Ser Thr Phe Asn Ala Leu Pro Ala Leu  
 180 185 190

Ala Ala Met Gln Thr Ser Ser Val Val Gln Glu Leu Lys Lys Ala Val  
 195 200 205

Ala Gln Gln Pro Glu Gly Val Arg Thr Leu Ala Glu Gly Phe Pro Gly  
 210 215 220

Leu Glu Ala Ala Ser Arg Trp Ala Gln Ala Leu Gln Glu Val Glu Glu  
 225 230 235 240

Ser Ser Arg Pro Tyr Leu Gln Glu Val Gln Arg Tyr Glu Thr Tyr Arg  
 245 250 255

Trp

<210> 86  
 <211> 287  
 <212> PRT  
 <213> Homo sapiens

<400> 86  
 Val Gly Gly Asn Val Gln Thr Leu Val Cys Arg Ser Trp Glu Asn Gly  
 1 5 10 15

Glu Leu Phe Glu Phe Ala Asp Thr Pro Gly Asn Leu Pro Pro Ser Met  
 20 25 30

Asn Leu Ser Gln Leu Leu Gly Leu Arg Lys Asn Ile Ser Ile His Gln  
 35 40 45

Ala Tyr Gln Gln Cys Lys Glu Gly Ala Ala Leu Trp Thr Val Leu Gln  
 50 55 60

Leu Asn Asp Ser Tyr Asp Leu Glu Glu His Leu Asp Ile Asn Gln Tyr  
 65 70 75 80

Thr Asn Lys Leu Arg Gln Glu Leu Gln Ser Leu Lys Val Asp Thr Gln  
 85 90 95

Ser Leu Asp Leu Leu Ser Ser Ala Ala Arg Arg Asp Leu Glu Ala Leu  
 100 105 110

Gln Ser Ser Gly Leu Gln Arg Ile His Tyr Pro Asp Phe Leu Val Gln  
 115 120 125

Ile Gln Arg Pro Val Val Lys Thr Ser Met Glu Gln Leu Ala Gln Glu  
 130 135 140

Leu Gln Gly Leu Ala Gln Ala Gln Asp Asn Ser Val Leu Gly Gln Arg  
 145 150 155 160

Leu Gln Glu Glu Ala Gln Gly Leu Arg Asn Leu His Gln Glu Lys Val  
 165 170 175

Val Pro Gln Gln Ser Leu Val Ala Lys Leu Asn Leu Ser Val Arg Ala  
 180 185 190

Leu Glu Ser Ser Ala Pro Asn Leu Gln Leu Glu Thr Ser Asp Val Leu  
 195 200 205

Ala Asn Val Thr Tyr Leu Lys Gly Glu Leu Pro Ala Trp Ala Ala Arg  
 210 215 220

Ile Leu Arg Asn Val Ser Glu Cys Phe Leu Ala Arg Glu Met Gly Tyr  
 225 230 235 240

Phe Ser Gln Tyr Val Ala Trp Val Arg Glu Glu Val Thr Gln Arg Ile  
 245 250 255

Ala Thr Cys Gln Pro Leu Ser Gly Ala Leu Asp Asn Ser Arg Val Ile  
 260 265 270

Leu Cys Asp Met Met Ala Asp Pro Trp Asn Ala Phe Trp Phe Cys  
 275 280 285

<210> 87

<211> 40

<212> PRT

<213> Homo sapiens

<400> 87

Lys Gln Leu His Phe Lys Met Gln Met Thr Val Gly Glu Lys Glu Tyr  
 1 5 10 15

Pro Val Cys Cys Gln Leu Ile Leu Phe Ser Leu Cys Cys Phe Ile Trp  
 20 25 30

Glu Glu Leu Phe Leu Tyr Ile Lys  
 35 40

<210> 88

<211> 70

<212> PRT

<213> Homo sapiens

<400> 88

Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly  
 1 5 10 15

Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val  
 20 25 30

Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp  
 35 40 45

Ile Leu Leu Asn Val Asp Gly Val Arg Thr Asp Arg Gly Gln Pro Gly  
 50 55 60

Val Arg Gln Trp His Tyr  
 65 70

<210> 89

<211> 38

<212> PRT

<213> Homo sapiens

<400> 89  
 Ile Ser Lys Lys Asp Pro Gly Glu Ser Leu Gly Met Thr Val Ala Gly  
 1 5 10 15  
 Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile Tyr Val Ile Ser Val  
 20 25 30  
 Glu Pro Gly Gly Val Ile  
 35

<210> 90  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 90  
 Ser Arg Asp Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp  
 1 5 10 15  
 Gly Val Arg Thr Asp Arg Gly Gln Pro Gly Val Arg Gln Trp His Tyr  
 20 25 30

<210> 91  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 91  
 Phe Ser Thr Lys Val Gly Pro Glu Glu Gln Leu Gly Ile Lys Leu Val  
 1 5 10 15  
 Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly  
 20 25 30

Gly Val Ala Tyr Arg His Gly Gln Leu Glu Glu Asn Asp Arg Val Leu  
 35 40 45

Ala Ile Asn Gly His Asp Leu Arg Tyr Gly Ser Pro Glu Ser Ala Ala  
 50 55 60

His Leu Ile Gln Ala Ser Glu Arg Arg Val His Leu Val Val Ser Arg  
 65 70 75 80

Gln Val Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Ala Leu Glu  
 85 90 95

Gln Gln Trp Gln Leu Val Pro Arg Ala Arg Gly Glu Glu Gln His Ser  
 100 105 110

Gln Ala Pro Pro Ser Tyr Asn Tyr Leu Ser  
 115 120

<210> 92  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 92  
 Phe Ser Thr Lys Val Gly Pro Glu Glu Gln Leu Gly Ile Lys Leu Val  
 1 5 10 15  
 Arg Lys Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val Leu Asp Gly  
 20 25 30  
 Gly Val Ala Tyr Arg His Gly Gln Leu  
 35 40

<210> 93  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 93  
 Glu Glu Asn Asp Arg Val Leu Ala Ile Asn Gly His Asp Leu Arg Tyr  
 1 5 10 15  
 Gly Ser Pro Glu Ser Ala Ala His Leu Ile Gln Ala Ser Glu Arg Arg  
 20 25 30  
 Val His Leu Val Val Ser Arg Gln Val  
 35 40

<210> 94  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 94  
 Arg Gln Arg Ser Pro Asp Ile Phe Gln Glu Ala Ala Leu Glu Gln Gln  
 1 5 10 15  
 Trp Gln Leu Val Pro Arg Ala Arg Gly Glu Glu Gln His Ser Gln Ala  
 20 25 30  
 Pro Pro Ser Tyr Asn Tyr Leu Ser  
 35 40

<210> 95  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 95  
 Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser  
 1 5 10 15

Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln  
 20 25 30

Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala  
 35 40 45

Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro  
 50 55 60

Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala  
 65 70 75 80

Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly  
 85 90 95

Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr  
 100 105 110

Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly  
 115 120 125

Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys  
 130 135 140

Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr  
 145 150 155 160

Phe Leu

<210> 96  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
 Gln Arg Ser Ala Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser  
 1 5 10 15

Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln  
 20 25 30

Glu Asp Cys Ser  
 35

<210> 97  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
 Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro Pro Ser Asp  
 1 5 10 15

Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg Cys Leu Tyr  
 20 25 30

Asn Cys Lys Asp Ile Val Leu Arg Arg  
 35 40

<210> 98  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 Asn Thr Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu  
 1 5 10 15  
 Tyr Asn Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr  
 20 25 30

Pro Ala Tyr Asn Asp Gly Arg Ile Arg Cys Gly  
 35 40

<210> 99  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 99  
 Asp Ile Leu Leu Ala Val Asn Gly Arg Ser Thr Ser Gly Met Ile His  
 1 5 10 15  
 Ala Cys Leu Ala Arg Leu Leu Lys Glu Leu Lys Gly Arg Ile Thr Leu  
 20 25 30

Thr Ile Val Ser Trp Pro Gly Thr Phe Leu  
 35 40

<210> 100  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Met Thr Val Ala Gly Gly Ala Ser His Arg Glu Trp Asp Leu Pro Ile  
 1 5 10 15  
 Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp Gly Arg  
 20 25 30

Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu Leu Thr  
 35 40 45

Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr Ser Ser  
 50 55 60

Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro Gln Glu  
 65 70 75 80

Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met Ala Pro  
                   85                         90                         95  
  
 Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu Pro Arg  
                   100                     105                     110  
  
 Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr Ala Gly  
                   115                     120                     125  
  
 Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn Gly Asn  
                   130                     135                     140  
  
 Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala Tyr Asn  
                   145                     150                     155                 160  
  
 Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn Gly Arg  
                   165                     170                     175  
  
 Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu Lys Glu  
                   180                     185                     190  
  
 Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly Thr Phe  
                   195                     200                     205  
  
 Leu  
  
 <210> 101  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 101  
 Met Ala Thr Ser Thr Ile Thr Ser Arg Arg Leu Met Ser Gly Phe Leu  
       1                     5                     10                 15  
  
 Phe Leu Pro Val Ser Ser Phe Ser Met Ser Phe Phe Phe Phe Ser Thr  
       20                     25                     30  
  
 Cys Ser Val Thr Leu Ile Thr Ser Phe Cys Ile Phe Pro Val Ser Val  
       35                     40                     45  
  
 Ser Phe Phe Ile Ala Val Glu Asn Thr Trp Cys Arg Thr Val Ile Thr  
       50                     55                     60  
  
 Leu Pro Leu Ser Leu Ser Gly Ala Phe Ser Phe Ser Val Pro Ile Thr  
       65                     70                     75                 80  
  
 Val Ser Leu Ser Val Ser Val Ser Leu Ser Ile Ser Val Phe Leu Ser  
       85                     90                     95  
  
 Ser Gly Ile Ile Val Pro Leu Leu Ala Gly Val His Lys Thr Arg Pro  
       100                     105                     110  
  
 Arg Arg Ser Arg Thr Arg Lys Met Gly Lys Gly Asn Ile Ala Ile Trp  
       115                     120                     125

Lys Cys Thr Cys Arg Thr Thr Ile Ile Thr Arg Gly Met Ser Thr Phe  
 130 135 140  
 Tyr Cys Trp Tyr Lys Arg Trp Arg Trp Ser Ala Trp Trp Arg Arg Lys  
 145 150 155 160  
 Thr Arg Trp Trp Asn Gln Arg Trp Ser Ser Ala Asp Ser Arg Arg Arg  
 165 170 175  
 Trp Lys Lys Trp Arg Arg Trp Lys Val Ser Gly Arg Ser Ser Trp Arg  
 180 185 190  
 Glu Lys Arg Arg Trp Phe Ala Lys Ile Val Val Tyr Phe Ser Ser Arg  
 195 200 205  
 Ser Phe Arg Lys Asp Leu Tyr Val Ala Val Leu Ile Cys Pro Ser Pro  
 210 215 220  
 Ala Phe Tyr Ser Ala Asp Ser Tyr Ser Leu Thr Asp Asn Ile Asn Cys  
 225 230 235 240  
 Pro Arg

<210> 102  
 <211> 520  
 <212> PRT  
 <213> Homo sapiens

<400> 102  
 Met Ser Ala Gly Glu Val Glu Arg Leu Val Ser Glu Leu Ser Gly Gly  
 1 5 10 15  
 Thr Gly Gly Asp Glu Glu Glu Trp Leu Tyr Gly Asp Glu Asn Glu  
 20 25 30  
 Val Glu Arg Pro Glu Glu Glu Asn Ala Ser Ala Asn Pro Pro Ser Gly  
 35 40 45  
 Ile Glu Asp Glu Thr Ala Glu Asn Gly Leu Pro Lys Pro Lys Val Thr  
 50 55 60  
 Glu Thr Glu Asp Asp Ser Asp Ser Asp Ser Asp Asp Glu Asp Asp  
 65 70 75 80  
 Val His Val Thr Ile Gly Asp Ile Lys Thr Gly Ala Pro Gln Tyr Gly  
 85 90 95  
 Ser Tyr Gly Thr Ala Pro Val Asn Leu Asn Ile Lys Thr Gly Gly Arg  
 100 105 110  
 Val Tyr Gly Thr Thr Gly Thr Lys Val Lys Gly Val Asp Leu Asp Ala  
 115 120 125  
 Pro Gly Ser Ile Asn Gly Val Pro Leu Leu Glu Val Asp Leu Asp Ser  
 130 135 140

Phe Glu Asp Lys Pro Trp Arg Lys Pro Gly Ala Asp Leu Ser Asp Tyr  
 145 150 155 160  
 Phe Asn Tyr Gly Phe Asn Glu Asp Thr Trp Lys Ala Tyr Cys Glu Lys  
 165 170 175  
 Gln Lys Arg Ile Arg Met Gly Leu Glu Val Ile Pro Val Thr Ser Thr  
 180 185 190  
 Thr Asn Lys Ile Thr Val Gln Gln Gly Arg Thr Gly Asn Ser Glu Lys  
 195 200 205  
 Glu Thr Ala Leu Pro Ser Thr Lys Ala Glu Phe Thr Ser Pro Pro Ser  
 210 215 220  
 Leu Phe Lys Thr Gly Leu Pro Pro Ser Arg Arg Leu Pro Gly Ala Ile  
 225 230 235 240  
 Asp Val Ile Gly Gln Thr Ile Thr Ile Ser Arg Val Glu Gly Arg Arg  
 245 250 255  
 Arg Ala Asn Glu Asn Ser Asn Ile Gln Val Leu Ser Glu Arg Ser Ala  
 260 265 270  
 Thr Glu Val Asp Asn Asn Phe Ser Lys Pro Pro Pro Phe Phe Pro Pro  
 275 280 285  
 Gly Ala Pro Pro Thr His Leu Pro Pro Pro Phe Leu Pro Pro Pro  
 290 295 300  
 Pro Thr Val Ser Thr Ala Pro Pro Leu Ile Pro Pro Pro Gly Phe Pro  
 305 310 315 320  
 Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu Ile Pro Thr Ile Glu Ser  
 325 330 335  
 Gly His Ser Ser Gly Tyr Asp Ser Arg Ser Ala Arg Ala Phe Pro Tyr  
 340 345 350  
 Gly Asn Val Ala Phe Pro His Leu Pro Gly Ser Ala Pro Ser Trp Pro  
 355 360 365  
 Ser Leu Val Asp Thr Ser Lys Gln Trp Asp Tyr Tyr Ala Arg Arg Glu  
 370 375 380  
 Lys Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp  
 385 390 395 400  
 Arg Asp Arg Glu Arg Glu Arg Thr Arg Glu Arg Glu Arg Glu Arg Asp  
 405 410 415  
 His Ser Pro Thr Pro Ser Val Phe Asn Ser Asp Glu Glu Arg Tyr Arg  
 420 425 430  
 Tyr Arg Glu Tyr Ala Glu Arg Gly Tyr Glu Arg His Arg Ala Ser Arg  
 435 440 445  
 Glu Lys Glu Glu Arg His Arg Glu Arg Arg His Arg Glu Lys Glu Glu

450 455 460

Thr Arg His Lys Ser Ser Arg Ser Asn Ser Arg Arg Arg His Glu Ser  
465 470 475 480

Glu Glu Gly Asp Ser His Arg Arg His Lys His Lys Lys Ser Lys Arg  
485 490 495

Ser Lys Glu Gly Lys Glu Ala Gly Ser Glu Pro Ala Pro Glu Gln Glu  
500 505 510

Ser Thr Glu Ala Thr Pro Ala Glu  
515 520

<210> 103

<211> 205

<212> PRT

<213> Homo sapiens

<400> 103

Met Ile Val Val Leu His Val His Phe His Met Ala Met Leu Pro Phe  
1 5 10 15

Pro Ile Phe Leu Val Leu Leu Leu Arg Gly Leu Val Leu Trp Thr Pro  
20 25 30

Ala Ser Ser Gly Thr Ile Met Pro Glu Glu Arg Lys Thr Glu Ile Glu  
35 40 45

Arg Glu Thr Glu Thr Glu Ser Glu Thr Val Ile Gly Thr Glu Lys Glu  
50 55 60

Asn Ala Pro Glu Arg Glu Arg Gly Ser Val Ile Thr Val Leu His Gln  
65 70 75 80

Val Phe Ser Thr Ala Met Lys Asn Asp Thr Asp Thr Gly Asn Met Gln  
85 90 95

Lys Glu Val Met Ser Val Thr Glu Gln Val Glu Lys Lys Lys Asn Asp  
100 105 110

Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg Lys Pro Asp Ile Ser Leu  
115 120 125

Leu Glu Val Ile Val Asp Val Ala Met Lys Val Lys Lys Glu Ile Val  
130 135 140

Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys Glu Ala Lys Lys Glu Lys  
145 150 155 160

Lys Arg Ala Val Ser Leu Pro Leu Asn Arg Arg Ala Pro Lys Leu His  
165 170 175

Leu Gln Asn Arg His Gly Phe Gly Leu Leu Cys Ile Leu Val Pro Glu  
180 185 190

Val Asp Thr Ile Asn Leu Val Ile Phe Leu Asp Asn Ala

195	200	205
<210> 104		
<211> 26		
<212> PRT		
<213> Homo sapiens		
<400> 104		
His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro		
1	5	10
Ser Val Gly Arg Gln Ala Ala Gly Ala Ala		
20	25	
<210> 105		
<211> 494		
<212> PRT		
<213> Homo sapiens		
<400> 105		
His Ala Ser Ala His Gly Pro Arg Pro Ser Val Arg Thr Gly Leu Pro		
1	5	10
Ser Val Gly Arg Gln Ala Ala Gly Ala Ala Met Gly Arg Gly Trp Gly		
20	25	30
Phe Leu Phe Gly Leu Leu Gly Ala Val Trp Leu Leu Ser Ser Gly His		
35	40	45
Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln		
50	55	60
Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp		
65	70	75
80		
Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu		
85	90	95
Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro		
100	105	110
Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg Arg Asp Cys Ala Val Lys		
115	120	125
Pro Cys Gln Ser Asp Glu Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr		
130	135	140
Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile Glu Glu Cys Glu Gln Ala		
145	150	155
160		
Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys		
165	170	175
Ala Val Leu Gln Trp Thr Lys His Asp Asp Ser Ser Asp Asn Phe Cys		
180	185	190

Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu  
 195 200 205  
 Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys  
 210 215 220  
 Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile  
 225 230 235 240  
 Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu  
 245 250 255  
 Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu Cys Val Glu Lys Arg Ala  
 260 265 270  
 Phe Tyr Arg Leu Ile Ser Gly Leu His Ala Ser Ile Asn Val His Leu  
 275 280 285  
 Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly  
 290 295 300  
 His Asn Ile Thr Glu Phe Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu  
 305 310 315 320  
 Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile  
 325 330 335  
 Glu Leu Arg Ala Leu Ser Lys Val Leu Pro Phe Phe Glu Arg Pro Asp  
 340 345 350  
 Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln Asp Glu Glu Asn Lys Met  
 355 360 365  
 Leu Leu Leu Glu Ile Leu His Glu Ile Lys Ser Phe Pro Leu His Phe  
 370 375 380  
 Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys Lys Glu Ala His Lys Leu  
 385 390 395 400  
 Lys Glu Asp Phe Arg Leu His Phe Arg Asn Ile Ser Arg Ile Met Asp  
 405 410 415  
 Cys Val Gly Cys Phe Lys Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln  
 420 425 430  
 Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala  
 435 440 445  
 Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu Phe His Leu Thr Arg Gln  
 450 455 460  
 Glu Ile Val Ser Leu Phe Asn Ala Phe Gly Arg Ile Ser Thr Ser Val  
 465 470 475 480  
 Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu Gln Asn Ile His  
 485 490

<210> 106  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 106  
 Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val  
 1 5 10 15  
 Arg Ser Ile Pro Phe Gly Pro Gly  
 20

<210> 107  
 <211> 289  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (144)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (246)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (252)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 107  
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys  
 1 5 10 15

Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys  
 20 25 30

Asn Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe  
 35 40 45

Cys Arg Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe  
 50 55 60

Cys Ala Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu  
 65 70 75 80

Ile Val His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu  
 85 90 95

Lys Trp Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly  
 100 105 110

Arg Asp Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser  
 115 120 125

Lys Ala Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Xaa  
 130 135 140  
 Val Ala Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu  
 145 150 155 160  
 Thr Pro Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg  
 165 170 175  
 Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser  
 180 185 190  
 Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile  
 195 200 205  
 Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser  
 210 215 220  
 Ala Gly Val Glu Gly Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser  
 225 230 235 240  
 Trp Tyr Thr Gly Arg Xaa Leu Leu Asp His Arg Xaa Gln Met Gly Pro  
 245 250 255  
 Ala Leu Ser Trp Trp Pro Arg Leu Ala Pro Ala Leu Ser Pro Gly Ser  
 260 265 270  
 Ala Thr Thr Lys Pro Ser Arg Ser Thr Val Ala Pro Pro Pro Pro Pro  
 275 280 285

## Thr

<210> 108  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 108  
 Ser Thr Phe Asp Lys Gly Tyr Gly Lys Tyr Phe Ala Ala Gly Glu Lys  
 1 5 10 15  
 Tyr His Thr Ser Ser Val Phe His Lys Ala Gln Arg Ala Arg Trp Lys  
 20 25 30

## Asn

<210> 109  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 109  
 Arg Arg Ser Trp Arg Leu Ser Gly Val His Trp Ser Pro Ile Phe Cys  
 1 5 10 15

Arg Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys  
 20 25 30

Ala Ser Ala Ala  
 35

<210> 110  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 110  
 Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val  
 1 5 10 15

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg  
 20 25 30

Leu His Ala Leu  
 35

<210> 111  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu Leu Arg Asn Val  
 1 5 10 15

Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile Pro Val Val Ile  
 20 25 30

Asp Ala Asp Gly  
 35

<210> 112  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 112  
 Leu Trp Xaa Val Ala Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys  
 1 5 10 15

Ala Val Leu Thr Pro Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala  
 20 25 30

Val Leu Arg Gly

35

<210> 113  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 113  
 Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln  
 1 5 10 15

Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu  
 20 25 30

Ser Asn Gly Gln  
 35

<210> 114  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 114  
 Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Ala Gly Val Glu Gly  
 1 5 10 15

Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp Tyr Thr Gly Arg  
 20 25 30

Xaa Leu Leu Asp  
 35

<210> 115  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115  
 His Arg Xaa Gln Met Gly Pro Ala Leu Ser Trp Trp Pro Arg Leu Ala  
 1 5 10 15

Pro Ala Leu Ser Pro Gly Ser Ala Thr Thr Lys Pro Ser Arg Ser Thr  
 20 25 30

Val Ala Pro Pro Pro Pro Pro Thr

35

40

<210> 116  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 116  
 Cys Cys Arg Asn Ser Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val  
 1 5 10 15  
 Arg Ser Ile Pro Phe Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly  
 20 25 30  
 Thr Ala Val Ala Gly Ala Val Val Ala Leu Leu Ser Ala Ala Leu  
 35 40 45  
 Ala Leu Tyr Gly Pro Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser  
 50 55 60  
 Leu Arg Lys Ala His Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu  
 65 70 75 80  
 Val Arg Asn Ile Ile Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln  
 85 90 95  
 Asp Gly Arg Ile Gly Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala  
 100 105 110  
 Pro Tyr Phe Ala Glu Ser Gln Leu Ser Lys Trp Ala Gln Thr Cys Pro  
 115 120 125  
 Thr Cys Ser Val Pro Val Arg Pro His Leu  
 130 135

<210> 117  
 <211> 366  
 <212> PRT  
 <213> Homo sapiens

<400> 117  
 Ala Arg Gly Gln Ser Gly Leu Ala Asp Glu Val Arg Ser Ile Pro Phe  
 1 5 10 15  
 Gly Pro Gly Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly  
 20 25 30  
 Ala Val Val Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro  
 35 40 45  
 Pro Leu Asp Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His  
 50 55 60  
 Ser Ile Lys Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile  
 65 70 75 80

Pro Pro Leu Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly  
 85 90 95  
 Val Val Gly Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala  
 100 105 110  
 Ile Ser Ala Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala  
 115 120 125  
 Ser Ala Ala Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val  
 130 135 140  
 His Pro Val Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp  
 145 150 155 160  
 Leu Pro Arg Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp  
 165 170 175  
 Asp Ala Leu Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala  
 180 185 190  
 Arg Asp Ile Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala  
 195 200 205  
 Gln Gln Pro Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro  
 210 215 220  
 Asn His Val Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro  
 225 230 235 240  
 Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala  
 245 250 255  
 Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser  
 260 265 270  
 Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg  
 275 280 285  
 Cys Gly Gly Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val  
 290 295 300  
 His Trp Ala Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro  
 305 310 315 320  
 Leu Leu Val Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn  
 325 330 335  
 His Gln Ala Phe Gln Lys His Gly Arg Ser Thr Thr Ser Asp Met  
 340 345 350  
 Ile Ala Glu Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr  
 355 360 365

<210> 118  
 <211> 12  
 <212> PRT

<213> Homo sapiens

<400> 118  
 Gly Thr Ser Ala Ala Leu Glu Pro Pro Gly Pro Asp  
 1 5 10

<210> 119

<211> 83

<212> PRT

<213> Homo sapiens

<400> 119  
 Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met  
 1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys  
 20 25 30

Arg Glu Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro  
 35 40 45

Ser Gln Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser Ile Ser Pro Gln  
 50 55 60

Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu Ser Asn Glu Glu  
 65 70 75 80

Pro Asn Gly

<210> 120

<211> 34

<212> PRT

<213> Homo sapiens

<400> 120  
 Arg Thr Arg Gln Glu Arg Met Leu Phe Ser Val Ala Leu Ala Glu Met  
 1 5 10 15

Lys Trp Ala Arg Phe Val Ala Val Met Gln Gly His His Thr Asn Cys  
 20 25 30

Arg Glu

<210> 121

<211> 26

<212> PRT

<213> Homo sapiens

<400> 121  
 Tyr Cys Gln Ala Ile Phe Arg Thr Asp Ser Ser Pro Gly Pro Ser Gln  
 1 5 10 15

Ile Lys Ala Val Glu Asn Tyr Cys Ala Ser

20

25

<210> 122  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Ile Ser Pro Gln Leu Ile His Cys Val Asn Asn Tyr Thr Ser Ile Leu  
 1 5 10 15  
 Ser Asn Glu Glu Pro Asn Gly  
 20

<210> 123  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 123  
 His Glu Arg Cys Pro Ala Pro Val Pro Ser Val Asn Pro Leu Ser Leu  
 1 5 10 15  
 Trp Cys Trp Phe Arg Ser Arg Leu Gln Gln Asn Asp Leu Gly Thr Ser  
 20 25 30

<210> 124  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 124  
 His Glu Pro Ser Gln Leu Pro Arg Pro His Ser Ser Thr Gly Trp Ser  
 1 5 10 15  
 Gly Arg Lys Trp Ala Leu Lys Thr Gly Phe Ser Ala Ser Ala Ser Arg  
 20 25 30  
 Lys Pro Glu Pro Trp Arg Cys Arg Ala Thr Val Cys Pro Pro Arg Val  
 35 40 45  
 Thr Thr Ala Ser Ala Ser Ala Gln Ser Ala Asp  
 50 55

<210> 125  
 <211> 487  
 <212> PRT  
 <213> Homo sapiens

<400> 125  
 Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu

1

5

10

15

Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu  
 20 25 30

Lys Ala Gly Ala Val Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly  
 35 40 45

Asp Tyr Arg Phe Arg Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro  
 50 55 60

His Val Val Phe His Gly Ser Ala His Leu Val Pro Thr Ala Arg Leu  
 65 70 75 80

Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly Glu Asp Ala Val  
 85 90 95

Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr Trp Phe Leu Asn  
 100 105 110

Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro Gly  
 115 120 125

Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu Ile  
 130 135 140

Leu His Ala Val Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser  
 145 150 155 160

Cys Pro Gly Val Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro  
 165 170 175

Val His Ile Leu Ser Pro Gln Asp Lys Val Ser Leu Thr Phe Thr Thr  
 180 185 190

Ser Glu Arg Val Val Leu Thr Cys Glu Leu Ser Arg Val Asp Phe Pro  
 195 200 205

Ala Thr Trp Tyr Lys Asp Gly Gln Lys Val Glu Glu Ser Glu Leu Leu  
 210 215 220

Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro Glu Ala  
 225 230 235 240

Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly Val Ser  
 245 250 255

Ala Phe Phe Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp  
 260 265 270

Pro Arg Glu His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met  
 275 280 285

Leu Ala Cys Glu Val Asp Arg Glu Asp Ala Pro Val Arg Trp Tyr Lys  
 290 295 300

Asp Gly Gln Glu Val Glu Glu Ser Asp Phe Val Val Leu Glu Asn Glu  
 305 310 315 320

Gly Pro His Arg Arg Leu Val Leu Pro Ala Thr His Pro Ser Asp Gly  
 325 330 335  
 Gly Glu Phe Gln Cys Val Ala Gly Asp Glu Cys Ala Tyr Phe Thr Val  
 340 345 350  
 Thr Ile Thr Asp Val Ser Ser Trp Ile Val Tyr Pro Ser Gly Lys Val  
 355 360 365  
 Tyr Val Ala Ala Val Arg Leu Glu Arg Val Val Leu Thr Cys Glu Leu  
 370 375 380  
 Cys Arg Pro Trp Ala Glu Val Arg Trp Thr Lys Asp Gly Glu Glu Val  
 385 390 395 400  
 Val Glu Ser Pro Ala Leu Leu Leu Gln Lys Glu Asp Thr Val Arg Arg  
 405 410 415  
 Leu Val Leu Pro Ala Val Gln Leu Glu Asp Ser Gly Glu Tyr Leu Cys  
 420 425 430  
 Glu Ile Asp Asp Glu Ser Ala Ser Phe Thr Val Thr Val Thr Glu Ser  
 435 440 445  
 Tyr Gln Ser Gln Asp Ser Ser Asn Asn Asn Pro Glu Leu Cys Val Leu  
 450 455 460  
 Leu Lys Lys Pro Lys Thr Arg Arg Leu Trp Ser Arg Phe Pro Pro Trp  
 465 470 475 480  
 Arg Arg Thr Ala Gly Thr Glu  
 485

&lt;210&gt; 126

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

Ala Arg Ala Glu Pro Ala Pro Glu Thr Pro Phe Ile Tyr Arg Leu Glu  
 1 5 10 15

Arg Gln Glu Val Gly Ser Glu Asp Trp Ile Gln Cys Phe Ser Ile Glu  
 20 25 30

Lys Ala Gly Ala Val  
 35

&lt;210&gt; 127

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

Glu Val Pro Gly Asp Cys Val Pro Ser Glu Gly Asp Tyr Arg Phe Arg

1 5 10 15

Ile Cys Thr Val Ser Gly His Gly Arg Ser Pro His Val Val Phe His  
20 25 30

Gly Ser Ala His Leu  
35

<210> 128

<211> 37

<212> PRT

<213> Homo sapiens

<400> 128

Val Pro Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr  
1 5 10 15

Asp Gly Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln  
20 25 30

Gly Thr Trp Phe Leu  
35

<210> 129

<211> 37

<212> PRT

<213> Homo sapiens

<400> 129

Asn Gly Glu Glu Leu Lys Ser Asn Glu Pro Glu Gly Gln Val Glu Pro  
1 5 10 15

Gly Ala Leu Arg Tyr Arg Ile Glu Gln Lys Gly Leu Gln His Arg Leu  
20 25 30

Ile Leu His Ala Val  
35

<210> 130

<211> 37

<212> PRT

<213> Homo sapiens

<400> 130

Lys His Gln Asp Ser Gly Ala Leu Val Gly Phe Ser Cys Pro Gly Val  
1 5 10 15

Gln Asp Ser Ala Ala Leu Thr Ile Gln Glu Ser Pro Val His Ile Leu  
20 25 30

Ser Pro Gln Asp Lys  
35

<210> 131

<211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 131  
 Val Ser Leu Thr Phe Thr Thr Ser Glu Arg Val Val Leu Thr Cys Glu  
 1 5 10 15  
 Leu Ser Arg Val Asp Phe Pro Ala Thr Trp Tyr Lys Asp Gly Gln Lys  
 20 25 30  
 Val Glu Glu Ser Glu  
 35

<210> 132  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Leu Leu Val Val Lys Met Asp Gly Arg Lys His Arg Leu Ile Leu Pro  
 1 5 10 15  
 Glu Ala Lys Val Gln Asp Ser Gly Glu Phe Glu Cys Arg Thr Glu Gly  
 20 25 30  
 Val Ser Ala Phe Phe  
 35

<210> 133  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Gly Val Thr Val Gln Asp Pro Pro Val His Ile Val Asp Pro Arg Glu  
 1 5 10 15  
 His Val Phe Val His Ala Ile Thr Ser Glu Cys Val Met Leu Ala Cys  
 20 25 30  
 Glu Val Asp Arg Glu  
 35

<210> 134  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 134  
 Asp Ala Pro Val Arg Trp Tyr Lys Asp Gly Gln Glu Val Glu Glu Ser  
 1 5 10 15  
 Asp Phe Val Val Leu Glu Asn Glu Gly Pro His Arg Arg Leu Val Leu  
 20 25 30

Pro Ala Thr His Pro  
35

<210> 135  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 135  
Ser Asp Gly Gly Glu Phe Gln Cys Val Ala Gly Asp Glu Cys Ala Tyr  
1 5 10 15

Phe Thr Val Thr Ile Thr Asp Val Ser Ser Trp Ile Val Tyr Pro Ser  
20 25 30

Gly Lys Val Tyr Val  
35

<210> 136  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 136  
Ala Ala Val Arg Leu Glu Arg Val Val Leu Thr Cys Glu Leu Cys Arg  
1 5 10 15

Pro Trp Ala Glu Val Arg Trp Thr Lys Asp Gly Glu Glu Val Val Glu  
20 25 30

Ser Pro Ala Leu Leu  
35

<210> 137  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 137  
Leu Gln Lys Glu Asp Thr Val Arg Arg Leu Val Leu Pro Ala Val Gln  
1 5 10 15

Leu Glu Asp Ser Gly Glu Tyr Leu Cys Glu Ile Asp Asp Glu Ser Ala  
20 25 30

Ser Phe Thr Val Thr  
35

<210> 138  
<211> 43  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 138

Val	Thr	Glu	Ser	Tyr	Gln	Ser	Gln	Asp	Ser	Ser	Asn	Asn	Asn	Pro	Glu
1					5				10					15	

Leu	Cys	Val	Leu	Leu	Lys	Lys	Pro	Lys	Thr	Arg	Arg	Leu	Trp	Ser	Arg
								25					30		

Phe	Pro	Pro	Trp	Arg	Arg	Thr	Ala	Gly	Thr	Glu					
						35		40							

&lt;210&gt; 139

&lt;211&gt; 510

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

His	Glu	Ser	Glu	Tyr	Thr	Thr	Ser	Pro	Lys	Ser	Ser	Val	Leu	Cys	Pro
1					5				10				15		

Lys	Leu	Pro	Val	Pro	Ala	Ser	Ala	Pro	Ile	Pro	Phe	Phe	His	Arg	Cys
								25					30		

Ala	Pro	Val	Asn	Ile	Ser	Cys	Tyr	Ala	Lys	Phe	Ala	Glu	Ala	Leu	Ile
					35		40					45			

Thr	Phe	Val	Ser	Asp	Asn	Ser	Val	Leu	His	Arg	Leu	Ile	Ser	Gly	Val
					50		55			60					

Met	Thr	Ser	Lys	Glu	Ile	Ile	Leu	Gly	Leu	Cys	Leu	Leu	Ser	Leu	Val
65					70				75				80		

Leu	Ser	Met	Ile	Leu	Met	Val	Ile	Ile	Arg	Tyr	Ile	Ser	Arg	Val	Leu
					85			90				95			

Val	Trp	Ile	Leu	Thr	Ile	Leu	Val	Ile	Leu	Gly	Ser	Leu	Gly	Gly	Thr
					100		105					110			

Gly	Val	Leu	Trp	Trp	Pro	Tyr	Ala	Lys	Gln	Arg	Arg	Ser	Pro	Lys	Glu
					115		120					125			

Thr	Val	Thr	Pro	Glu	Gln	Leu	Gln	Ile	Ala	Glu	Asp	Asn	Leu	Arg	Ala
					130		135			140					

Leu	Leu	Ile	Tyr	Ala	Ile	Ser	Ala	Thr	Val	Phe	Thr	Val	Ile	Leu	Phe
145					150				155				160		

Leu	Ile	Met	Leu	Val	Met	Arg	Lys	Arg	Val	Ala	Leu	Thr	Ile	Ala	Leu
					165		170					175			

Phe	His	Val	Ala	Gly	Lys	Val	Phe	Ile	His	Leu	Pro	Leu	Leu	Val	Phe
					180		185			190					

Gln	Pro	Phe	Trp	Thr	Phe	Phe	Ala	Leu	Val	Leu	Phe	Trp	Val	Tyr	Trp
					195		200			205					

Ile	Met	Thr	Leu	Leu	Phe	Leu	Gly	Thr	Thr	Gly	Ser	Pro	Val	Gln	Asn
					210		215			220					

Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met  
 225 230 235 240

Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu  
 245 250 255

Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe  
 260 265 270

Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val  
 275 280 285

Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe  
 290 295 300

Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His  
 305 310 315 320

Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys  
 325 330 335

Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu  
 340 345 350

Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys  
 355 360 365

Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg  
 370 375 380

Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys  
 385 390 395 400

Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asn  
 405 410 415

Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys  
 420 425 430

Leu Phe Ala Phe Leu Asp Ala His Cys Phe Leu Ser Ile Tyr Glu Met  
 435 440 445

Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn  
 450 455 460

Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu  
 465 470 475 480

Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly  
 485 490 495

Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg  
 500 505 510

&lt;210&gt; 140

&lt;211&gt; 17

<212> PRT  
 <213> Homo sapiens

<400> 140  
 Arg Leu Ser Ala Val Gly Ala Val Pro Phe Thr Arg Pro Asp Ala Gly  
 1 5 10 15  
 Val

<210> 141  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 141  
 Val Gly Pro Arg Ala Glu Ala  
 1 5

<210> 142  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Gly Thr Arg Arg Ser Trp Gly Met Cys Arg Ala Thr Ala Gly Trp Ser  
 1 5 10 15  
 Pro Ala Glu Pro Pro Leu His Leu Trp  
 20 25

<210> 143  
 <211> 267  
 <212> PRT  
 <213> Homo sapiens

<400> 143  
 His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr  
 1 5 10 15

Ser Arg Ala Ala Pro Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu  
 20 25 30

Val Asp Ala Ala Gly Arg Trp Pro Gly Val Cys Val Ser Arg Thr Ser  
 35 40 45

Pro Thr Pro Pro Glu Ser Ala Thr Thr Val Lys Ser Leu Ile Lys Ser  
 50 55 60

Phe Asp Leu Gly Arg Pro Gly Gly Ala Gly Gln Asn Ile Ser Val His  
 65 70 75 80

Lys Thr Pro Arg Ser Pro Leu Ser Gly Ile Pro Val Arg Thr Ala Pro  
 85 90 95

Ala Ala Ala Val Ser Pro Met Gln Arg His Ser Thr Tyr Ser Ser Val  
 100 105 110  
 Arg Pro Ala Ser Arg Gly Val Thr Gln Arg Leu Asp Leu Pro Asp Leu  
 115 120 125  
 Pro Leu Ser Asp Ile Leu Lys Gly Arg Thr Glu Thr Leu Lys Pro Asp  
 130 135 140  
 Pro His Leu Arg Lys Ser Pro Ser Leu Glu Ser Leu Ser Arg Pro Pro  
 145 150 155 160  
 Ser Leu Gly Phe Gly Asp Thr Arg Leu Leu Ser Ala Ser Thr Arg Ala  
 165 170 175  
 Trp Lys Pro Gln Ser Lys Leu Ser Val Glu Arg Lys Asp Pro Leu Ala  
 180 185 190  
 Ala Leu Ala Arg Glu Tyr Gly Ser Lys Arg Asn Ala Leu Leu Lys  
 195 200 205  
 Trp Cys Gln Lys Lys Thr Gln Gly Tyr Ala Lys Arg Asn Leu Leu Leu  
 210 215 220  
 Ala Phe Glu Ala Ala Glu Ser Val Gly Ile Lys Pro Ser Leu Glu Leu  
 225 230 235 240  
 Ser Glu Met Leu Tyr Thr Asp Arg Pro Asp Trp Gln Ser Val Met Gln  
 245 250 255  
 Tyr Val Ala Gln Ile Tyr Lys Tyr Phe Glu Thr  
 260 265

<210> 144  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 His Glu Lys Glu Leu Gly Asp Val Gln Gly His Gly Arg Val Val Thr  
 1 5 10 15  
 Ser Arg Ala Ala Pro Pro Val Asp Glu Glu Pro Glu Ser Ser Glu  
 20 25 30  
 Val Asp Ala Ala Gly Arg Trp Pro Gly Val  
 35 40

<210> 145  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Cys Val Ser Arg Thr Ser Pro Thr Pro Pro Glu Ser Ala Thr Thr Val  
 1 5 10 15

Lys Ser Leu Ile Lys Ser Phe Asp Leu Gly Arg Pro Gly Gly Ala Gly  
 20 25 30

Gln Asn Ile Ser Val His Lys Thr Pro Arg  
 35 40

<210> 146  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Ser Pro Leu Ser Gly Ile Pro Val Arg Thr Ala Pro Ala Ala Val  
 1 5 10 15

Ser Pro Met Gln Arg His Ser Thr Tyr Ser Ser Val Arg Pro Ala Ser  
 20 25 30

Arg Gly Val Thr Gln Arg Leu Asp Leu Pro  
 35 40

<210> 147  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Asp Leu Pro Leu Ser Asp Ile Leu Lys Gly Arg Thr Glu Thr Leu Lys  
 1 5 10 15

Pro Asp Pro His Leu Arg Lys Ser Pro Ser Leu Glu Ser Leu Ser Arg  
 20 25 30

Pro Pro Ser Leu Gly Phe Gly Asp Thr Arg  
 35 40

<210> 148  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Leu Leu Ser Ala Ser Thr Arg Ala Trp Lys Pro Gln Ser Lys Leu Ser  
 1 5 10 15

Val Glu Arg Lys Asp Pro Leu Ala Ala Leu Ala Arg Glu Tyr Gly Gly  
 20 25 30

Ser Lys Arg Asn Ala Leu Leu Lys Trp Cys  
 35 40

<210> 149  
 <211> 57

<212> PRT  
 <213> Homo sapiens

<400> 149  
 Gln Lys Lys Thr Gln Gly Tyr Ala Lys Arg Asn Leu Leu Leu Ala Phe  
 1 5 10 15  
 Glu Ala Ala Glu Ser Val Gly Ile Lys Pro Ser Leu Glu Leu Ser Glu  
 20 25 30  
 Met Leu Tyr Thr Asp Arg Pro Asp Trp Gln Ser Val Met Gln Tyr Val  
 35 40 45  
 Ala Gln Ile Tyr Lys Tyr Phe Glu Thr  
 50 55

<210> 150  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 150  
 Ser Val Ser Lys Leu Pro Ala Asn Gly Lys Asn Val Asp Asp Val Ile  
 1 5 10 15  
 Arg Asn Gln

<210> 151  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 151  
 Thr Ser Met Thr Leu Phe Arg Ala Asp Thr Val Lys Asn Ile Glu Gly  
 1 5 10 15  
 Glu Leu Thr Gln Ser Ala Arg Leu Gly Cys Gly Gly Cys Leu Gly  
 20 25 30

Gly Trp Leu Gln Phe His Leu Thr Val Ser Ser Phe Ser Gly Phe Glu  
 35 40 45

Val Arg Gln Leu His Ala Gly Gly Ala Arg Lys Ala Glu Ser Arg Gln  
 50 55 60

Gly Ser Asp Thr Gly Glu Arg Ala Cys Asp Leu Leu Ala Asp Thr Asn  
 65 70 75 80

Pro Val Ala Arg Gly His His Phe Gln Gly Cys Trp Glu Gly Pro Gln  
 85 90 95

Ser Arg Val Ser Ala Ser Leu Trp His Gly His Ser Gly Xaa Pro Ser  
 100 105 110

Leu His Ala Pro Pro Thr Ser Ala Ser His Pro Phe His Phe Leu Pro  
 115 120 125

Thr Thr Met His Leu His Ser Glu Ser Ser  
 130 135

<210> 152

<211> 35

<212> PRT

<213> Homo sapiens

<400> 152

Thr Ser Met Thr Leu Phe Arg Ala Asp Thr Val Lys Asn Ile Glu Gly  
 1 5 10 15

Glu Leu Thr Gln Ser Ala Arg Leu Gly Cys Gly Gly Cys Leu Gly  
 20 25 30

Gly Trp Leu

35

<210> 153

<211> 35

<212> PRT

<213> Homo sapiens

<400> 153

Gln Phe His Leu Thr Val Ser Ser Phe Ser Gly Phe Glu Val Arg Gln  
 1 5 10 15

Leu His Ala Gly Gly Ala Arg Lys Ala Glu Ser Arg Gln Gly Ser Asp  
 20 25 30

Thr Gly Glu

35

<210> 154

<211> 35

<212> PRT

<213> Homo sapiens

<400> 154

Arg Ala Cys Asp Leu Leu Ala Asp Thr Asn Pro Val Ala Arg Gly His  
 1 5 10 15

His Phe Gln Gly Cys Trp Glu Gly Pro Gln Ser Arg Val Ser Ala Ser  
 20 25 30

Leu Trp His

35

<210> 155  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 155  
 Gly His Ser Gly Xaa Pro Ser Leu His Ala Pro Pro Thr Ser Ala Ser  
 1 5 10 15  
 His Pro Phe His Phe Leu Pro Thr Thr Met His Leu His Ser Glu Ser  
 20 25 30

Ser

<210> 156  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156  
 Glu Arg Ala Ser Ala Trp Pro Gly His Ser Pro Phe Ser Cys Thr Leu  
 1 5 10 15

Arg His Pro Lys Thr Leu Ala Val Ser Pro Ala Pro Val Tyr Leu Leu  
 20 25 30

Ser Ser Ser Ala Leu Phe Leu Pro Leu Thr Xaa Leu Pro Gly Ile Leu  
 35 40 45

Ser Gln Pro Glu Xaa Asn Pro Asn Arg Asn Glu Met Leu Ser Gly Asn  
 50 55 60

Leu Thr Lys Glu Ala Gln Ser His Phe Val Leu Pro Ser Pro His Ile  
 65 70 75 80

Pro Arg Thr Thr Ala Tyr Phe Lys Arg Thr Gln Thr Ile His Leu Tyr  
 85 90 95

Lys Gly Thr Ala Arg Lys Arg Ser Arg Gln Arg  
 100 105

<210> 157  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 157  
 Glu Arg Ala Ser Ala Trp Pro Gly His Ser Pro Phe Ser Cys Thr Leu  
 1 5 10 15  
 Arg His Pro Lys Thr Leu Ala Val Ser Pro Ala Pro Val Tyr Leu Leu  
 20 25 30  
 Ser Ser Ser  
 35

<210> 158  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 158  
 Ala Leu Phe Leu Pro Leu Thr Xaa Leu Pro Gly Ile Leu Ser Gln Pro  
 1 5 10 15  
 Glu Xaa Asn Pro Asn Arg Asn Glu Met Leu Ser Gly Asn Leu Thr Lys  
 20 25 30  
 Glu Ala Gln  
 35

<210> 159  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 159  
 Ser His Phe Val Leu Pro Ser Pro His Ile Pro Arg Thr Thr Ala Tyr  
 1 5 10 15  
 Phe Lys Arg Thr Gln Thr Ile His Leu Tyr Lys Gly Thr Ala Arg Lys  
 20 25 30  
 Arg Ser Arg Gln Arg  
 35

<210> 160  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 160  
 Lys Val Pro Asn Pro Leu Val Val Thr Ser Ile His Pro Thr Leu Ala  
 1 5 10 15  
 Gln Leu Gln Ile Ala Thr Arg Ser His Ser Ser Ser Cys Cys Leu Tyr  
 20 25 30  
 Arg Phe Ser Asn Ser Gly His Phe Ile Ser Met Glu Ser Tyr Asn  
 35 40 45

<210> 161  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Gly Pro Ser Trp Pro Leu Trp Pro Arg Ser Ser Leu Gly Pro Cys Leu  
 1 5 10 15  
 Val Tyr Arg Val Trp Gly Asp Ser Met Cys Thr Pro Leu Leu Ser Gln  
 20 25 30  
 Val Asp Phe Glu Gln Leu Thr Glu Asn Leu Gly Gln Leu Glu Arg Arg  
 35 40 45  
 Ser Arg Ala Ala Glu Glu Ser Leu Arg Thr Trp Pro Ser Met Ser Trp  
 50 55 60  
 Pro Gln Pro Cys Val Pro Ala Ser Pro Thr Ser Trp Thr Ser Val Pro  
 65 70 75 80  
 Ala Arg Val Ala Met Leu Arg Ile Val His Arg Arg Val Cys Asn Arg  
 85 90 95  
 Phe His Ala Phe Leu Leu Tyr Leu Gly Tyr Thr Pro Gln Ala Ala Arg  
 100 105 110  
 Glu Val Arg Ile Met Gln Phe Cys His Thr Leu Arg Glu Phe Ala Leu  
 115 120 125  
 Glu Tyr Arg Thr Cys Arg Glu Arg Val Leu Gln Gln Gln Lys Gln  
 130 135 140  
 Ala Thr Tyr Arg Glu Arg Asn Lys Thr Arg Gly Arg Met Ile Thr Glu  
 145 150 155 160  
 Val Gly Ala Leu Pro Gly Leu Ser Leu Asp Cys His Leu Leu Gly Phe  
 165 170 175  
 Leu Arg Ser Ser Gln Leu Thr Leu Leu Ser Pro Asp Arg Glu Val

180

185

190

Leu Arg Cys Gly Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser  
 195 200 205

Ser Glu Gln Arg Ala Arg Pro Gly Arg Cys  
 210 215

<210> 162  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 162  
 Gly Pro Ser Trp Pro Leu Trp Pro Arg Ser Ser Leu Gly Pro Cys Leu  
 1 5 10 15

Val Tyr Arg Val Trp Gly Asp Ser Met Cys Thr Pro Leu Leu Ser Gln  
 20 25 30

Val Asp Phe Glu  
 35

<210> 163  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 163  
 Gln Leu Thr Glu Asn Leu Gly Gln Leu Glu Arg Arg Ser Arg Ala Ala  
 1 5 10 15

Glu Glu Ser Leu Arg Thr Trp Pro Ser Met Ser Trp Pro Gln Pro Cys  
 20 25 30

Val Pro Ala Ser  
 35

<210> 164  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 164  
 Pro Thr Ser Trp Thr Ser Val Pro Ala Arg Val Ala Met Leu Arg Ile  
 1 5 10 15

Val His Arg Arg Val Cys Asn Arg Phe His Ala Phe Leu Leu Tyr Leu  
 20 25 30

Gly Tyr Thr Pro  
 35

<210> 165

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Gln Ala Ala Arg Glu Val Arg Ile Met Gln Phe Cys His Thr Leu Arg  
 1 5 10 15  
 Glu Phe Ala Leu Glu Tyr Arg Thr Cys Arg Glu Arg Val Leu Gln Gln  
 20 25 30  
 Gln Gln Lys Gln  
 35

<210> 166  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Ala Thr Tyr Arg Glu Arg Asn Lys Thr Arg Gly Arg Met Ile Thr Glu  
 1 5 10 15  
 Val Gly Ala Leu Pro Gly Leu Ser Leu Asp Cys His Leu Leu Gly Phe  
 20 25 30  
 Leu Arg Ser Ser  
 35

<210> 167  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Gln Leu Thr Leu Leu Ser Pro Asp Arg Glu Val Leu Arg Cys Gly  
 1 5 10 15  
 Trp Gly Ser Pro Gln Gln Pro Leu Cys Pro Ser Ser Ser Glu Gln Arg  
 20 25 30  
 Ala Arg Pro Gly Arg Cys  
 35

<210> 168  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 168  
 Gly Ala Leu Leu Pro Gly Pro Gly Ser Ser Pro Phe Ser Pro Phe Gly  
 1 5 10 15  
 Leu Leu Cys Gln Gly Leu Leu Gln Pro Pro Gly Cys Glu Leu Cys Pro  
 20 25 30

Leu Pro Glu  
35

<210> 169  
<211> 702  
<212> PRT  
<213> Homo sapiens

<400> 169  
Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly  
1 5 10 15  
Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser  
20 25 30  
Gly Ser Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln  
35 40 45  
Leu Ser Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu  
50 55 60  
Cys Gly Pro Glu Ser Gly Leu Pro Lys Asn Pro Ser Val Val Phe Ser  
65 70 75 80  
Ser Asn Glu Asp Leu Glu Val Gly Asp Gln Gln Thr Ser Leu Ile Ser  
85 90 95  
Thr Thr Glu Asp Ile Asn Gln Glu Glu Val Ala Val Glu Asp Asn  
100 105 110  
Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu Asp  
115 120 125  
Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn Trp  
130 135 140  
Gly Val Arg Arg Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro  
145 150 155 160  
Ser Leu Gln Glu Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu  
165 170 175  
Thr Asn Gln Glu Asp Thr Asp Glu Ser Ser Glu Glu Glu Ala Ala Leu  
180 185 190  
Thr Ala Ser Gln Ile Leu Ser Arg Thr Gln Met Leu Asn Ser Asp Ser  
195 200 205  
Ala Thr Asp Glu Thr Ile Pro Asp His Pro Asp Leu Leu Leu Gln Ser  
210 215 220  
Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln Ile Arg  
225 230 235 240  
Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn Ser Arg  
245 250 255

DRAFT - NOT FOR CITATION

Leu Pro Glu Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr  
 260 265 270  
 Phe Glu Asp Glu Gly Ser Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu  
 275 280 285  
 Val Cys Gln Gly Ile Leu Asp Leu Glu Glu Thr Glu Met Pro Glu Pro  
 290 295 300  
 Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val Cys Glu Glu Asp Val Thr  
 305 310 315 320  
 Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys Glu Glu Glu Ala Asp  
 325 330 335  
 Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu Glu Gln Asp Gly Phe Pro  
 340 345 350  
 Glu Val Gln Thr Ser Pro Leu Pro Ser Pro Phe Leu Ser Ala Ile Ile  
 355 360 365  
 Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg  
 370 375 380  
 Cys His Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val  
 385 390 395 400  
 Phe Thr Phe His Val Phe Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys  
 405 410 415  
 Phe Gly Glu Ile Thr Asn Glu Ala Val Ser Phe Leu Gly Asp Ser Leu  
 420 425 430  
 Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser Leu Glu Val Met Met Leu  
 435 440 445  
 Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu Thr Leu Met Ser  
 450 455 460  
 Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu Glu Leu Gln Glu  
 465 470 475 480  
 His Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu  
 485 490 495  
 Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile  
 500 505 510  
 Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu  
 515 520 525  
 His Phe Gln Leu Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn  
 530 535 540  
 Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu  
 545 550 555 560

Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser  
 565 570 575  
 Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu  
 580 585 590  
 Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile  
 595 600 605  
 Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp  
 610 615 620  
 Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile  
 625 630 635 640  
 Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile  
 645 650 655  
 Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu  
 660 665 670  
 Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu  
 675 680 685  
 Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly  
 690 695 700

<210> 170  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly  
 1 5 10 15  
 Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser  
 20 25 30  
 Gly Ser Asn Ser Asn  
 35

<210> 171  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln Leu Ser Gln Arg Arg  
 1 5 10 15  
 Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser  
 20 25 30  
 Gly Leu Pro Lys Asn  
 35

<210> 172  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 172  
 Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu Val Gly Asp Gln  
 1 5 10 15  
 Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu  
 20 25 30  
 Val Ala Val Glu Asp  
 35

<210> 173  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Asn Ser Ser Glu Gln Gln Phe Gly Val Phe Lys Asp Phe Asp Phe Leu  
 1 5 10 15  
 Asp Val Glu Leu Glu Asp Ala Glu Gly Glu Ser Met Asp Asn Phe Asn  
 20 25 30  
 Trp Gly Val Arg Arg  
 35

<210> 174  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Arg Ser Leu Asp Ser Ile Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu  
 1 5 10 15  
 Tyr Gln Cys Ser Ser Ser Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu  
 20 25 30  
 Asp Thr Asp Glu Ser  
 35

<210> 175  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Ser Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu Ser Arg Thr  
 1 5 10 15

Gln Met Leu Asn Ser Asp Ser Ala Thr Asp Glu Thr Ile Pro Asp His  
 20 25 30

Pro Asp Leu Leu Leu  
 35

<210> 176  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Gln Ser Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu Glu Val Leu Gln  
 1 5 10 15

Ile Arg Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu Asp Asn Ala Asn  
 20 25 30

Ser Arg Leu Pro Glu  
 35

<210> 177  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Asp Thr Thr Ser Val Leu Lys Glu Glu His Val Thr Thr Phe Glu Asp  
 1 5 10 15

Glu Gly Ser Tyr Ile Ile Gln Glu Gln Gln Glu Ser Leu Val Cys Gln  
 20 25 30

Gly Ile Leu Asp Leu  
 35

<210> 178  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Glu Glu Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr Pro Glu  
 1 5 10 15

Ser Val Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu Asp Glu  
 20 25 30

Arg Cys Glu Glu Glu  
 35

<210> 179  
 <211> 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

Glu	Ala	Asp	Phe	Ser	Gly	Leu	Ser	Ser	Gln	Asp	Glu	Glu	Glu	Gln	Asp
1															
			5						10						15

Gly	Phe	Pro	Glu	Val	Gln	Thr	Ser	Pro	Leu	Pro	Ser	Pro	Phe	Leu	Ser
				20					25						30

Ala Ile Ile Ala Ala

35

&lt;210&gt; 180

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

Phe	Gln	Pro	Val	Ala	Tyr	Asp	Asp	Glu	Glu	Glu	Ala	Trp	Arg	Cys	His
1															
				5					10						15

Val	Asn	Gln	Met	Leu	Ser	Asp	Thr	Asp	Gly	Ser	Ser	Ala	Val	Phe	Thr
				20					25						30

Phe His Val Phe Ser

35

&lt;210&gt; 181

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

Arg	Leu	Phe	Gln	Thr	Ile	Gln	Arg	Lys	Phe	Gly	Glu	Ile	Thr	Asn	Glu
1															
				5						10					15

Ala	Val	Ser	Phe	Leu	Gly	Asp	Ser	Leu	Gln	Arg	Ile	Gly	Thr	Lys	Phe
				20					25						30

Lys Ser Ser Leu Glu

35

&lt;210&gt; 182

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

Val	Met	Met	Leu	Cys	Ser	Glu	Cys	Pro	Thr	Val	Phe	Val	Asp	Ala	Glu
1															
				5					10						15

Thr	Leu	Met	Ser	Cys	Gly	Leu	Leu	Glu	Thr	Leu	Lys	Phe	Gly	Val	Leu
				20					25						30

Glu Leu Gln Glu His  
35

<210> 183  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 183  
Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu Asp  
1 5 10 15  
Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile Asn  
20 25 30

Thr Asp Ala Gln Glu  
35

<210> 184  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 184  
Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu  
1 5 10 15  
Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys  
20 25 30  
Asn Glu Ala Glu Val  
35

<210> 185  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 185  
Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu  
1 5 10 15  
Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala  
20 25 30

Gln Thr Thr Ile Glu  
35

<210> 186  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 186

Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile  
 1 5 10 15  
 Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp  
 20 25 30  
 Ile Phe Gly Ser Cys  
 35

<210> 187  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile Tyr Phe His His Gln  
 1 5 10 15  
 Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp  
 20 25 30  
 Met Ser Glu Ala Asn  
 35

<210> 188  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met  
 1 5 10 15  
 Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met  
 20 25 30  
 Val Ser Thr Gly  
 35

<210> 189  
 <211> 703  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Gly Thr Ser Lys Tyr Gly Asp Gln His Ser Ala Ala Gly Arg Asn Gly  
 1 5 10 15  
 Lys Pro Lys Val Ile Ala Val Thr Arg Ser Thr Ser Ser Thr Ser Ser  
 20 25 30  
 Gly Ser Asn Ser Asn Ala Leu Val Pro Val Ser Trp Lys Arg Pro Gln  
 35 40 45  
 Leu Ser Gln Arg Arg Thr Arg Glu Lys Leu Met Asn Val Leu Ser Leu

50	55	60													
Cys	Gly	Pro	Glu	Ser	Gly	Leu	Pro	Lys	Asn	Pro	Ser	Val	Val	Phe	Ser
65					65					75					80
Ser	Asn	Glu	Asp	Leu	Glu	Val	Gly	Asp	Gln	Gln	Thr	Ser	Leu	Ile	Ser
											85				95
Thr	Thr	Glu	Asp	Ile	Asn	Gln	Glu	Glu	Val	Ala	Val	Glu	Asp	Asn	
					100				105				110		
Ser	Ser	Glu	Gln	Gln	Phe	Gly	Val	Phe	Lys	Asp	Phe	Asp	Phe	Leu	Asp
					115				120				125		
Val	Glu	Leu	Glu	Asp	Ala	Glu	Gly	Glu	Ser	Met	Asp	Asn	Phe	Asn	Trp
					130				135				140		
Gly	Val	Arg	Arg	Arg	Ser	Leu	Asp	Ser	Ile	Asp	Lys	Gly	Asp	Thr	Pro
					145				150			155		160	
Ser	Leu	Gln	Glu	Tyr	Gln	Cys	Ser	Ser	Ser	Thr	Pro	Ser	Leu	Asn	Leu
					165				170				175		
Thr	Asn	Gln	Glu	Asp	Thr	Asp	Glu	Ser	Ser	Glu	Glu	Glu	Ala	Ala	Leu
					180				185				190		
Thr	Ala	Ser	Gln	Ile	Leu	Ser	Arg	Thr	Gln	Met	Leu	Asn	Ser	Asp	Ser
					195				200				205		
Ala	Thr	Asp	Glu	Thr	Ile	Pro	Asp	His	Pro	Asp	Leu	Leu	Leu	Gln	Ser
					210				215				220		
Glu	Asp	Ser	Thr	Gly	Ser	Ile	Thr	Thr	Glu	Glu	Val	Leu	Gln	Ile	Arg
					225				230				235		240
Asp	Glu	Thr	Pro	Thr	Leu	Glu	Ala	Ser	Leu	Asp	Asn	Ala	Asn	Ser	Arg
					245				250				255		
Leu	Pro	Glu	Asp	Thr	Thr	Ser	Val	Leu	Lys	Glu	Glu	His	Val	Thr	Thr
					260				265				270		
Phe	Glu	Asp	Glu	Gly	Ser	Tyr	Ile	Ile	Gln	Glu	Gln	Gln	Glu	Ser	Leu
					275				280				285		
Val	Cys	Gln	Gly	Ile	Leu	Asp	Leu	Glu	Thr	Glu	Met	Pro	Glu	Pro	
					290				295				300		
Leu	Ala	Pro	Glu	Ser	Tyr	Pro	Glu	Ser	Val	Cys	Glu	Glu	Asp	Val	Thr
					305				310				315		320
Leu	Ala	Leu	Lys	Glu	Leu	Asp	Glu	Arg	Cys	Glu	Glu	Glu	Glu	Ala	Asp
					325				330				335		
Phe	Ser	Gly	Leu	Ser	Ser	Gln	Asp	Glu	Glu	Glu	Gln	Asp	Gly	Phe	Pro
					340				345				350		
Glu	Val	Gln	Thr	Ser	Pro	Leu	Pro	Ser	Pro	Phe	Leu	Ser	Ala	Ile	Ile
					355				360				365		

Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp Glu Glu Glu Ala Trp Arg  
 370 375 380  
 Cys His Val Asn Gln Met Leu Ser Asp Thr Asp Gly Ser Ser Ala Val  
 385 390 395 400  
 Phe Thr Phe His Val Phe Ser Arg Leu Phe Gln Thr Ile Gln Arg Lys  
 405 410 415  
 Phe Gly Glu Ile Thr Asn Glu Ala Val Ser Phe Leu Gly Asp Ser Leu  
 420 425 430  
 Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser Leu Glu Val Met Met Leu  
 435 440 445  
 Cys Ser Glu Cys Pro Thr Val Phe Val Asp Ala Glu Thr Leu Met Ser  
 450 455 460  
 Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly Val Leu Glu Leu Gln Glu  
 465 470 475 480  
 His Leu Asp Thr Tyr Asn Val Lys Arg Glu Ala Ala Glu Gln Trp Leu  
 485 490 495  
 Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys Glu Asp Met Tyr Arg Ile  
 500 505 510  
 Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys Arg Arg Leu Tyr Lys Leu  
 515 520 525  
 His Phe Gln Leu Leu Leu Phe Gln Ala Tyr Cys Lys Leu Ile Asn  
 530 535 540  
 Gln Val Asn Thr Ile Lys Asn Glu Ala Glu Val Ile Asn Met Ser Glu  
 545 550 555 560  
 Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys Glu Ala Glu Ser Ala Ser  
 565 570 575  
 Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala Ala Gln Thr Thr Ile Glu  
 580 585 590  
 Thr Ala Ile His Ser Leu Ile Glu Thr Leu Lys Asn Lys Glu Phe Ile  
 595 600 605  
 Ser Ala Val Ala Gln Val Lys Ala Phe Arg Ser Leu Trp Pro Ser Asp  
 610 615 620  
 Ile Phe Gly Ser Cys Glu Asp Asp Pro Val Gln Thr Leu Ile His Ile  
 625 630 635 640  
 Tyr Phe His His Gln Thr Leu Gly Gln Thr Gly Ser Phe Ala Val Ile  
 645 650 655  
 Gly Ser Asn Leu Asp Met Ser Glu Ala Asn Tyr Lys Leu Met Glu Leu  
 660 665 670

Asn Leu Glu Ile Arg Glu Ser Leu Arg Met Val Gln Ser Tyr Gln Leu  
 675 680 685

Leu Ala Gln Ala Lys Pro Met Gly Asn Met Val Ser Thr Gly Phe  
 690 695 700

<210> 190  
 <211> 645  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met Asn Val Leu Ser Leu Cys Gly Pro Glu Ser Gly Leu Pro Lys Asn  
 1 5 10 15

Pro Ser Val Val Phe Ser Ser Asn Glu Asp Leu Glu Val Gly Asp Gln  
 20 25 30

Gln Thr Ser Leu Ile Ser Thr Thr Glu Asp Ile Asn Gln Glu Glu Glu  
 35 40 45

Val Ala Val Glu Asp Asn Ser Ser Glu Gln Gln Phe Gly Val Phe Lys  
 50 55 60

Asp Phe Asp Phe Leu Asp Val Glu Leu Glu Asp Ala Glu Gly Glu Ser  
 65 70 75 80

Met Asp Asn Phe Asn Trp Gly Val Arg Arg Arg Ser Leu Asp Ser Ile  
 85 90 95

Asp Lys Gly Asp Thr Pro Ser Leu Gln Glu Tyr Gln Cys Ser Ser Ser  
 100 105 110

Thr Pro Ser Leu Asn Leu Thr Asn Gln Glu Asp Thr Asp Glu Ser Ser  
 115 120 125

Glu Glu Glu Ala Ala Leu Thr Ala Ser Gln Ile Leu Ser Arg Thr Gln  
 130 135 140

Met Leu Asn Ser Asp Ser Ala Thr Asp Glu Thr Ile Pro Asp His Pro  
 145 150 155 160

Asp Leu Leu Leu Gln Ser Glu Asp Ser Thr Gly Ser Ile Thr Thr Glu  
 165 170 175

Glu Val Leu Gln Ile Arg Asp Glu Thr Pro Thr Leu Glu Ala Ser Leu  
 180 185 190

Asp Asn Ala Asn Ser Arg Leu Pro Glu Asp Thr Thr Ser Val Leu Lys  
 195 200 205

Glu Glu His Val Thr Thr Phe Glu Asp Glu Gly Ser Tyr Ile Ile Gln  
 210 215 220

Glu Gln Gln Glu Ser Leu Val Cys Gln Gly Ile Leu Asp Leu Glu Glu  
 225 230 235 240

Thr Glu Met Pro Glu Pro Leu Ala Pro Glu Ser Tyr Pro Glu Ser Val  
 245 250 255  
 Cys Glu Glu Asp Val Thr Leu Ala Leu Lys Glu Leu Asp Glu Arg Cys  
 260 265 270  
 Glu Glu Glu Ala Asp Phe Ser Gly Leu Ser Ser Gln Asp Glu Glu  
 275 280 285  
 Glu Gln Asp Gly Phe Pro Glu Val Gln Thr Ser Pro Leu Pro Ser Pro  
 290 295 300  
 Phe Leu Ser Ala Ile Ile Ala Ala Phe Gln Pro Val Ala Tyr Asp Asp  
 305 310 315 320  
 Glu Glu Glu Ala Trp Arg Cys His Val Asn Gln Met Leu Ser Asp Thr  
 325 330 335  
 Asp Gly Ser Ser Ala Val Phe Thr Phe His Val Phe Ser Arg Leu Phe  
 340 345 350  
 Gln Thr Ile Gln Arg Lys Phe Gly Glu Ile Thr Asn Glu Ala Val Ser  
 355 360 365  
 Phe Leu Gly Asp Ser Leu Gln Arg Ile Gly Thr Lys Phe Lys Ser Ser  
 370 375 380  
 Leu Glu Val Met Met Leu Cys Ser Glu Cys Pro Thr Val Phe Val Asp  
 385 390 395 400  
 Ala Glu Thr Leu Met Ser Cys Gly Leu Leu Glu Thr Leu Lys Phe Gly  
 405 410 415  
 Val Leu Glu Leu Gln Glu His Leu Asp Thr Tyr Asn Val Lys Arg Glu  
 420 425 430  
 Ala Ala Glu Gln Trp Leu Asp Asp Cys Lys Arg Thr Phe Gly Ala Lys  
 435 440 445  
 Glu Asp Met Tyr Arg Ile Asn Thr Asp Ala Gln Glu Leu Glu Leu Cys  
 450 455 460  
 Arg Arg Leu Tyr Lys Leu His Phe Gln Leu Leu Leu Phe Gln Ala  
 465 470 475 480  
 Tyr Cys Lys Leu Ile Asn Gln Val Asn Thr Ile Lys Asn Glu Ala Glu  
 485 490 495  
 Val Ile Asn Met Ser Glu Glu Leu Ala Gln Leu Glu Ser Ile Leu Lys  
 500 505 510  
 Glu Ala Glu Ser Ala Ser Glu Asn Glu Glu Ile Asp Ile Ser Lys Ala  
 515 520 525  
 Ala Gln Thr Thr Ile Glu Thr Ala Ile His Ser Leu Ile Glu Thr Leu  
 530 535 540  
 Lys Asn Lys Glu Phe Ile Ser Ala Val Ala Gln Val Lys Ala Phe Arg

120

545

550

555

560

Ser Leu Trp Pro Ser Asp Ile Phe Gly Ser Cys Glu Asp Asp Pro Val  
565 570 575

Gln Thr Leu Ile His Ile Tyr Phe His His Gln Thr Leu Gly Gln Thr  
580 585 590

Gly Ser Phe Ala Val Ile Gly Ser Asn Leu Asp Met Ser Glu Ala Asn  
595 600 605

Tyr Lys Leu Met Glu Leu Asn Leu Glu Ile Arg Glu Ser Leu Arg Met  
610 615 620

Val Gln Ser Tyr Gln Leu Leu Ala Gln Ala Lys Pro Met Gly Asn Met  
625 630 635 640

Val Ser Thr Gly Phe  
645

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